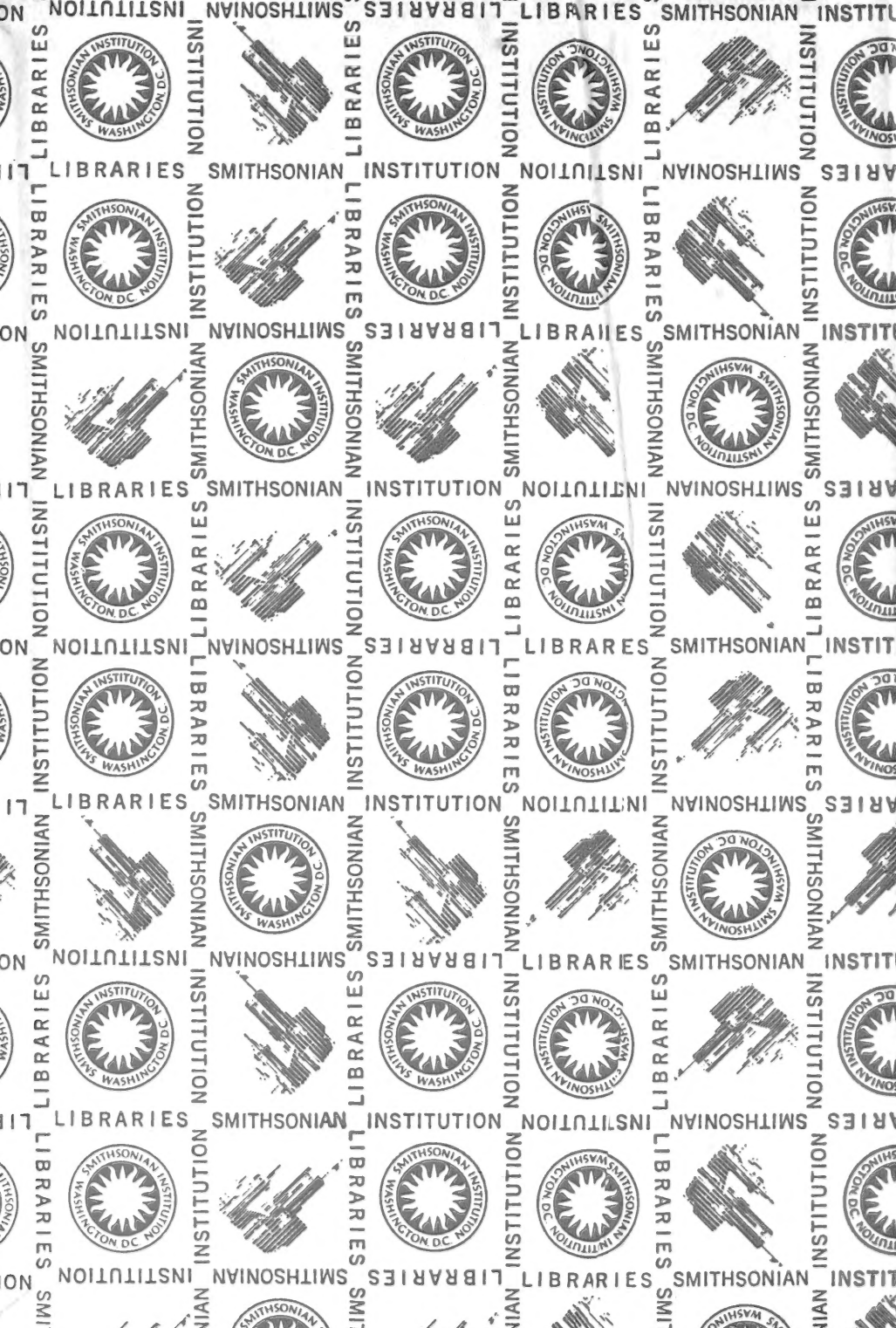
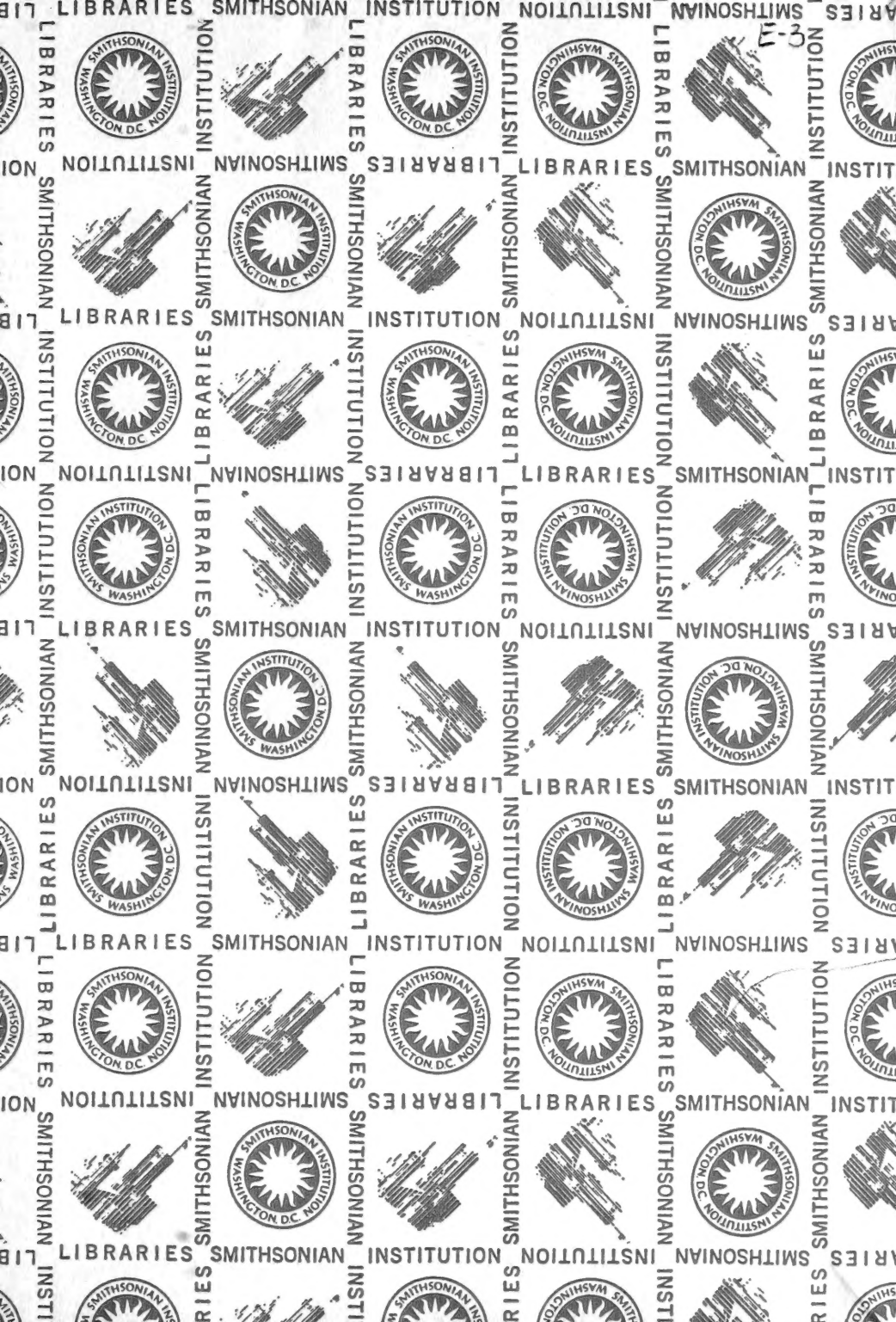


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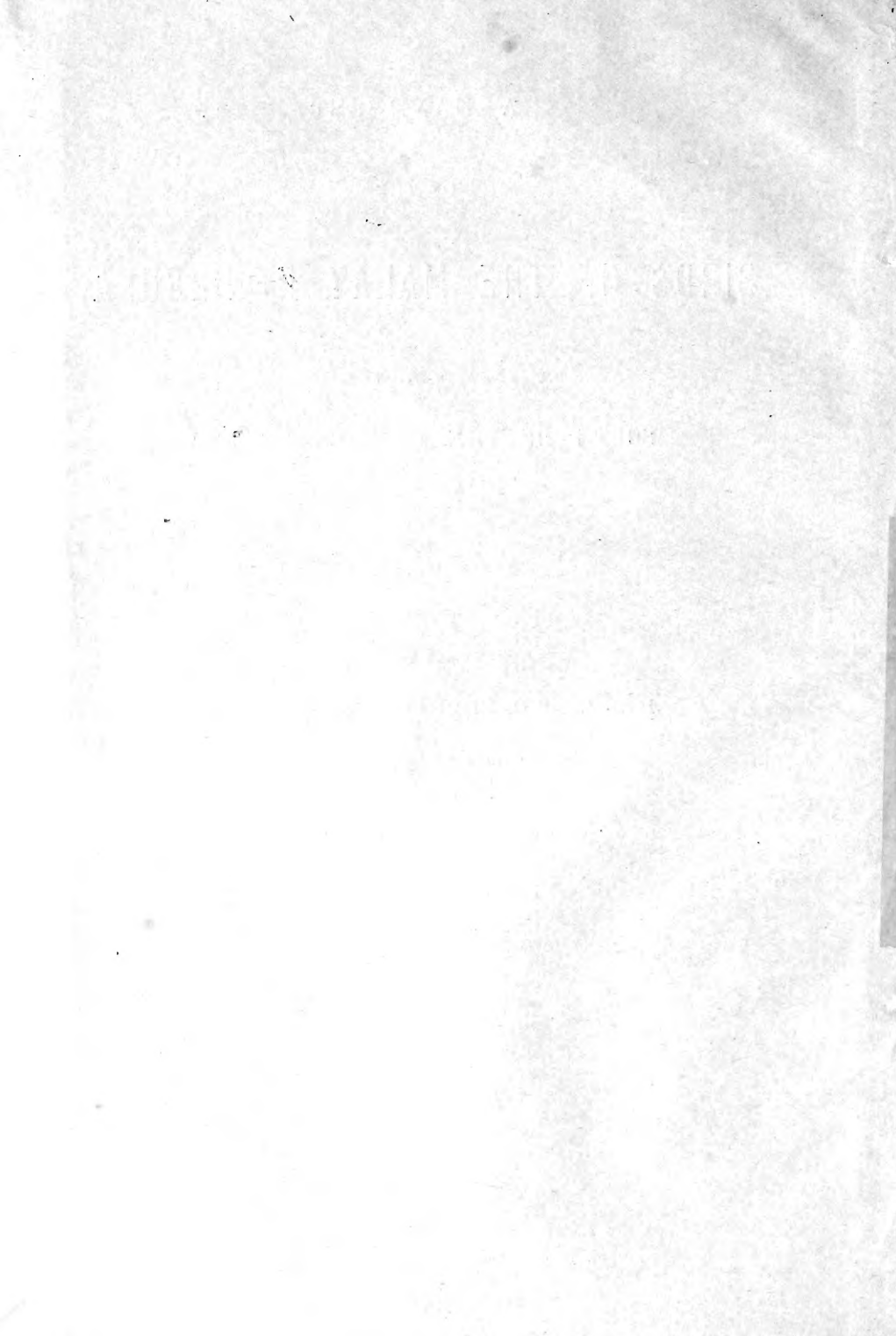
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A HAND-LIST  
OF THE  
BIRDS OF THE MALAY PENINSULA,  
SOUTH OF THE ISTHMUS OF KRA.

By  
HERBERT C. ROBINSON, C.M.Z.S., M.B.O.U.,  
DIRECTOR OF MUSEUMS, F.M.S.



KUALA LUMPUR:  
PRINTED AT THE F.M.S. GOVERNMENT PRINTING OFFICE.  
1910.



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Birds

# A HAND-LIST

OF THE

## BIRDS OF THE MALAY PENINSULA

SOUTH OF THE ISTHMUS OF KRA.

*Christopher*  
By

HERBERT C. ROBINSON//C.M.Z.S., M.B.O.U.,  
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A HAND-LIST  
OF THE BIRDS OF THE MALAY PENINSULA,  
SOUTH OF THE ISTHMUS OF KRA.

BY HERBERT C. ROBINSON, C.M.Z.S., M.B.O.U.,  
DIRECTOR OF MUSEUMS, FEDERATED MALAY STATES.

IN December, 1907, I published in the "Journal of the Federated Malay States" (Vol. ii., p. 66-83) a list of the birds then known from the Peninsular area, as indicated above. Since that date, however, a considerable number of additions have been made to the list and new facts been brought to light. I have, therefore, recast the list with a few supplementary notes, but, for convenience of reference, have retained the original numbering, merely interpolating species not previously included under a letter. Species not represented in the collections of one or other of the Federated Malay States Museums are printed in antique type—e.g., *Rheinwardtius*. Those whose occurrence in the Malay Peninsula is somewhat doubtful are enclosed in square brackets.

ORDER GALLIFORMES—GAME-BIRDS.

- |  |   |
|--|---|
| 1. <i>Rhizothera longirostris</i><br>( <i>Temm.</i> ).   | 9. <i>Lophura rufa</i> ( <i>Raffles</i> ).                        |
| 2. <i>Arboricola charltoni</i> ( <i>Eyton</i> ).         | 10. <i>Gallus gallus</i> ( <i>Linn.</i> ).                        |
| 3. <i>Arboricola campbelli</i> ,<br><i>Robinson</i> .    | 11. <i>Polyplectron malaccensis</i><br>( <i>Scop.</i> ).          |
| 4. <i>Caloperdix ocella</i> ( <i>Temm.</i> ).            | 12. <i>Polyplectron inopinatus</i><br>( <i>Rothsch.</i> ).        |
| 5. <i>Rollulus roulroul</i> ( <i>Scop.</i> ).            | 13. <i>Argusianus argus</i> ( <i>Linn.</i> ).                     |
| 6. <i>Melanoperdix nigra</i> ( <i>Vig.</i> ).            | 14. <i>Rheinwardtius nigres-</i><br><i>cens</i> , <i>Rothsch.</i> |
| 7. <i>Excalfactoria chinensis</i><br>( <i>Linn.</i> ).   | 15. <i>Pavo muticus</i> , <i>Linn.</i>                            |
| 8. <i>Acomus erythrophthalmus</i><br>( <i>Raffles</i> ). | 16. <i>Turnix taigoor</i> , <i>Sykes</i> .                        |

ORDER COLUMBIFORMES—PIGEONS.

- |   |  |
|---|--|
| 17. <i>Butorion capelli</i> ( <i>Temm.</i> ).         | 19. <i>Sphenocercus</i> , <i>sp.</i>                   |
| 18. <i>Sphenocercus robinsoni</i> ,<br><i>Grant</i> . | 20. <i>Osmotreron fulvicollis</i><br>( <i>Wagl.</i> ). |

3. High mountains of South Perak and Selangor.  
4. This species was obtained at Lamra, Trang, in January, 1910.  
12. Mountains of Selangor and Pahang above 3,000 feet.  
14. Ulu Dong, Gunong Tahan, and possibly the vicinity of Kuala Lipis, Pahang.

18. Common on Gunong Ijau, near Taiping, Perak; Semangko Pass and Gunung Mengkuang Lebah, Selangor; and Gunong Tahan, Pahang.

19. This species is not *Sp. korthalsi* as recorded in the first edition of this list, but probably distinct; it is known from an adult female from the Semangko Pass, Selangor, collected in March, 1908, and an immature male from Pulau Rumpia, one of the Sembilan Islands, off the mouth of the Perak River, shot in April, 1906.

## PIGEONS—(cont.)

- |  |  |
|--|--|
| 21. <i>Osmotreron bicincta</i> (Jerd.).        | 31. <i>Myristicivora bicolor</i> (Scop.).    |
| 22. <i>Osmotreron vernans</i> (Linn.).         | 32. <i>Macropygia leptogrammica</i> (Temm.). |
| 23. <i>Osmotreron olax</i> (Linn.).            | 33. <i>Macropygia ruficeps</i> (Temm.).      |
| 24. <i>Treron nipalensis</i> , <i>Hodgs.</i>   | [34. <i>Turtur humilis</i> (Temm.).]         |
| 25. <i>Ptilinopus jambu</i> (Gm.).             | 35. <i>Turtur tigrinus</i> (Temm. and Knip). |
| 26. <i>Carpophaga ænea</i> (Linn.).            | 36. <i>Geopelia striata</i> (Linn.).         |
| 27. <i>Carpophaga badia</i> (Raffles).         | 37. <i>Chalcophaps indica</i> (Linn.).       |
| [28. <i>Carpophaga griseicapilla</i> (Wald.).] | 38. <i>Calenas nicobarica</i> (Linn.).       |
| 29. <i>Columba grisea</i> , <i>G. R. Gr.</i>   |  |
| 30. <i>Columba punicea</i> (Blyth).            |  |

## ORDER RALLIFORMES—RAILS.

- |  |   |
|--|---|
| 39. <i>Hypotænidia striata</i> (Linn.).        | 44A. <i>Limnobænus paykulli</i> (Ljung).  |
| 40. <i>Rallina fasciata</i> (Raffles).         | 45. <i>Amaurornis phænicura</i> (Forst.). |
| 41. <i>Rallina superciliaris</i> (Eyton).      | 46. <i>Gallinula chloropus</i> (Linn.).   |
| 42. <i>Porzana auricularis</i> , <i>Rehnw.</i> | 47. <i>Gallix cinerea</i> (Lath.).        |
| 43. <i>Poliolimnas cinereus</i> (Vieill.).     | 48. <i>Porphyrio edwardsi</i> , Elliot.   |
| 44. <i>Limnobænus fuscus</i> (Linn.).          |   |
| 49. <i>Heliopais personata</i> (G. R. Gr.).    |   |

21. One specimen was shot at Kuala Selangor on the Selangor coast in December, 1904. Also obtained in Trang in January, 1910.

28. The inclusion of this species in the Peninsular list rests on a specimen so identified by the late Colonel Bingham, which was obtained at an altitude of 1,500 feet on Bukit Serudum, Kuantan, Eastern Pahang. The species will not improbably be found in the mountains of the northern half of the Peninsula, which have not yet been properly explored.

29. I believe I have seen this pigeon on the mountains of South Perak and on Pulau Jarak in the centre of the Straits of Malacca, off the mouth of the Perak River. Mr. Kloss has also obtained a specimen on Pulau Taya, a small island of the Lingga group, south of Singapore [Journ. Straits Branch Roy. Asiat. Soc., No. 41, p. 58 (1904)]. Two specimens were also obtained by the Selangor Museum collectors on Great Karimon Island, east of Singapore, and within sight of it, in August, 1908, so that the species may fairly lay claim to be considered a Peninsular bird.

30. Obtained on Terutau Island, one of the Langkawi group, north of Penang, in March, 1909; the most southerly record for the species.

34. The only specimens recorded from the Malay Peninsula are three in the British Museum [Salvad., Cat. Birds, Brit. Mus., xxi, p. 436, *spms. r', s', t'* (1893)], obtained at Malacca by Wallace and Maingay. The bird is imported from South China to Singapore as a cage-bird, and I am inclined to think that these specimens were escapes from captivity, as the species is not one that is at all likely to be overlooked, and no recent collector has met with it. Skins from the Philippines are in the Selangor Museum.

38. The only locality within the limits of this paper, whence the Nicobar Pigeon has been actually obtained, is Pulau Jarak, where I collected two specimens in December, 1904. I have also seen it in the same month on a small islet near Pulau Terutau, and Mr. Seimund has met with it on Pulau Rumpia, one of the Sembilan Islands, in March, 1909. It is reported to occur on Pulau Pisang, off the west coast of Johore. The specimen from Khota Bharu, Kelantan, listed by Bonhote (P. Z. S., 1901 (i), p. 77), is almost certainly a cage-bird.

42. Common, near Kuala Lumpur, in reedy swamps in the early months of the year.

ORDER *PODICIPEDIFORMES*—GREBES.50. *Podiceps philippinensis* (Bonn.).ORDER *LARIFORMES*—GULLS AND TERNS.

- |  |   |
|--|---|
| 51. <i>Hydrochelidon leucop-<br/>tera</i> , Meisn. and Schinz.<br>52. <i>Gelochelidon anglica</i><br>(Mont.).<br>53. <i>Seena seena</i> (Sykes).<br>54. <i>Sterna tibetana</i> , Saunders.<br>55. <i>Sterna longipennis</i> , Nordm.<br>56. <i>Sterna dougalli</i> , Mont.<br>57. <i>Sterna media</i> , Horsf. | 58. <i>Sterna bergii</i> , Licht.<br>59. <i>Sterna sinensis</i> , Gm.<br>60. <i>Sterna minuta</i> , Linn.<br>61. <i>Sterna saundersi</i> , Hume.<br>62. <i>Sterna anæsthesia</i> , Scop.<br>63. <i>Sterna melanauchen</i> , Temm.<br>64. <i>Anous stolidus</i> (Linn.).<br>65. <i>Micranous leucocapillus</i> ,<br>Gould. |
|--|---|

ORDER *CHARADRIIFORMES*—PLOVERS AND WADERS.

- |  |  |
|--|--|
| 65A. <i>Orthorhamphus magni-<br/>rostris</i> (Geoffr.).<br>66. <i>Arenaria interpres</i> (Linn.).<br>67. <i>Sarcogrammus atrinuchalis</i> ,<br>Jerd.<br>67A. <i>Hoplopterus ventralis</i><br>(Wagl.).<br>68. <i>Squatarola helvetica</i> (Linn.).<br>69. <i>Charadrius dominicus</i><br>(P. L. S. Müll.).<br>70. <i>Ochthodromus geoffroyi</i><br>(Wagl.).<br>71. <i>Ochthodromus mongolus</i><br>(Pall.).<br>72. <i>Ochthodromus pyrrhorthorax</i><br>(Gould.).<br>73. <i>Ochthodromus veredus</i><br>(Gould.). | 74. <i>Ægialitis dubia</i> (Scop.).<br>75. <i>Ægialitis alexandrina</i><br>(Linn.).<br>76. <i>Numenius arquata</i> (Linn.).<br>77. <i>Numenius phaeopus</i> (Linn.).<br>78. <i>Limosa novæ-zealandiæ</i> ,<br>G. R. Gr.<br>79. <i>Limosa limosa</i> (Linn.).<br>[80. <i>Himantopus himantopus</i><br>(Linn.).]<br>81. <i>Macrorhamphus taczon-<br/>owski</i> (Verr.).<br>81A. <i>Terekia cinerea</i> (Guldenst.).<br>82. <i>Totanus calidris</i> (Linn.).<br>83. <i>Totanus stagnatilis</i> , Bechst.<br>84. <i>Tringoides hypoleucus</i><br>(Linn.).<br>85. <i>Glottis nebularius</i> (Gunner). |
|--|--|

50. One specimen from Patelung and another from Trang (Abbott) are on record. Skins from non-Peninsular localities are in the Selangor Museum.

51. Noted in the Perak River estuary in November, 1906, and off Pulau Angsa on the Selangor coast in May, 1908.

65A. Two specimens were noted on a sand bank on the north coast of Bintang, an island to the south of Singapore Straits, and one was shot, though not recovered until two days later, when only sufficient remained to identify the species. Mr. Kloss has also obtained it in the Mergui Archipelago.

67A. Dr. Abbott obtained two specimens in dry padi fields, near Trang, in August and October, 1896.

80. A specimen labelled as coming from Jelebu, a small State in the centre of the Peninsula, east of Selangor, is in the Singapore Museum. I have reason to believe, however, that some transference of labels has taken place, and that the true locality for the specimen is Lengkoran.

81. Also in the Singapore Museum from the Dindings.

81A. The Avocet Sandpiper is omitted from my previous list. It is common all along the coasts of the Peninsula, in suitable localities, during the winter months.

## PLOVERS AND WADERS—(cont.)

- |  |  |
|--|--|
| 86. <i>Pseudoglossitis guttifer</i><br>( <i>Nordm.</i> ).    | 93. <i>Tringa crassirostris</i> , <i>Temm.</i><br>and <i>Schleg.</i> |
| 87. <i>Rhyacophilus glareola</i> ( <i>Gm.</i> ).             | 94. <i>Limicola platyrhyncha</i><br>( <i>Temm.</i> ).                |
| 88. <i>Pavoncella pugnax</i><br>( <i>Linn.</i> ).            | 95. <i>Gallinago stenura</i> ( <i>Kuhl.</i> ).                       |
| 89. <i>Limonites minuta</i> ( <i>Leisler</i> ).              | 96. <i>Gallinago gallinago</i> ( <i>Linn.</i> ).                     |
| 90. <i>Limonites ruficollis</i> ( <i>Pall.</i> ).            | 96A. <i>Gallinago megala</i> , <i>Swinh.</i>                         |
| 91. <i>Limonites damacensis</i><br>( <i>Pall.</i> ).         | 97. <i>Scolopax rusticula</i> , <i>Linn.</i>                         |
| 92. <i>Ancylochilus subarquatus</i><br>( <i>Guldenst.</i> ). | 98. <i>Rostratula capensis</i> ( <i>Linn.</i> ).                     |
|  | 99. <i>Hydrophasis chirurgus</i><br>( <i>Scop.</i> ).                |
100. *Glareola orientalis*, *Leech.*

## FAMILY GRUIDÆ—CRANES.

101. *Antigone sharpii* (*Blanf.*).

## FAMILY IBIDIDÆ—IBISES.

- |  |   |
|--|---|
| 102. <i>Ibis melanocephala</i> ( <i>Lath.</i> ).         | 104. <i>Thaumatibis gigantea</i><br>( <i>Oust.</i> ). |
| 103. <i>Graptocephalus davisoni</i><br>( <i>Hume.</i> ). |   |

## FAMILY CICONIIDÆ—STORKS.

- |   |   |
|---|---|
| 105. <i>Pseudotantalus cinereus</i><br>( <i>Raffles.</i> ). | 107. <i>Leptoptilus dubius</i><br>( <i>Gm.</i> ).       |
| 106. <i>Dissoura episcopus</i><br>( <i>Bodd.</i> ).         | 108. <i>Leptoptilus javanicus</i><br>( <i>Horsf.</i> ). |
109. *Xenorhynchus asiaticus* (*Lath.*).

## FAMILY ARDEIDÆ—HERONS AND BITTERNS.

- |   |   |
|---|---|
| 110. <i>Pyrherodias manillensis</i><br>( <i>Meyen.</i> ). | 112A. <i>Herodias alba</i> , <i>Linn.</i>             |
| 111. <i>Ardea sumatrana</i> , <i>Raffles.</i>             | 113. <i>Mesophoyx intermedia</i><br>( <i>Wagl.</i> ). |
| 112. <i>Ardea cinerea</i> , <i>Linn.</i>                  | 114. <i>Garzetta garzetta</i> ( <i>Linn.</i> ).       |

86. Two specimens shot at Kuala Kedah, December, 1907, and others from Kuala Krau, south of Penang, in March, 1909.

88. In the Singapore Museum, from Malacca.

96A. A single specimen was shot near Kuala Lumpur in December, 1909 (cf. "Journ. Federated Malay States Museums," iv., p. 130).

97. I have examined the remains of a Woodcock shot at Parit on the Perak River, and have also heard of occurrences at Province Wellesley and Malacca.

101. According to Dr. Abbott, common in two or three places in Trang, and often kept alive by the natives. Recorded from Penang (*ex coll.* Dr. Cantor), but probably imported.

103, 104. Both species are common in Trang (Abbott). The former has also been obtained by the Museum collectors.

105. By no means uncommon on the Selangor coast, but almost unprocureable owing to the depth of mud on the flats it frequents. Also seen at Kuala Kedah.

106. Very common on the eastern side of the Peninsula, but almost unknown on the west coast, south of Kedah. Common at Langkawi in March, 1909.

109. Recorded from Penang (*ex coll.* Cantor), but probably imported.

112A. Selangor coast, south of the mouth of the Bernam River, March, 1909.

## HERONS AND BITTERNS—(cont.)

- |   |   |
|---|---|
| 115. <i>Demigretta sacra</i> (Gm.).             | 120. <i>Ardeola bacchus</i> (Bp.).          |
| 116. <i>Nycticorax nycticorax</i><br>(Linn.).   | 121. <i>Bubulcus coromandus</i><br>(Bodd.). |
| 117. <i>Gorsachius melanophus</i><br>(Raffles). | 122. <i>Ardetta sinensis</i> (Gm.).         |
| 118. <i>Butorides javanica</i><br>(Horsf.).     | 122A. <i>Ardetta pulchra</i> , Hume.        |
| 119. <i>Ardeola grayi</i> (Sykes).              | 123. <i>Ardetta cinnamomea</i> (Gm.).       |
|   | 124. <i>Dupetor flavicollis</i> (Lath.).    |
|   | 124A. <i>Botaurus stellaris</i> , Linn.     |

## FAMILY ANATIDÆ—DUCKS AND GEESE.

- |  |   |
|--|---|
| 125. <i>Asarcornis leucoptera</i><br>(Blyth).  | 128. <i>Spatula clypeata</i> (Linn.).     |
| 126. <i>Nettopus coromandelianus</i><br>(Gm.). | 129. <i>Querquedula ciria</i><br>(Linn.). |
| 127. <i>Dendrocygna javanica</i><br>(Horsf.).  | [130. <i>Nyroca fuligula</i><br>(Linn.).] |

## FAMILY PLOTIDÆ—DARTERS.

- 131.
- Plotus melanogaster*
- (Gm.).

## FAMILY PHALACROCORACIDÆ—CORMORANTS.

- |  |  |
|--|--|
| 132. <i>Phalacrocorax carbo</i> ,<br>Linn. | 133. <i>Phalacrocorax javanicus</i><br>(Horsf.). |
|--|--|

## FAMILY FREGATIDÆ—FRIGATE BIRDS.

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| 134. <i>Fregata aquila</i> (Linn.). | 135. <i>Fregata ariel</i> (Gould.). |
|-------------------------------------|-------------------------------------|

119. From Klang, Selangor, December, 1909.

120. Langkawi, February, 1909. Trang, December-January, 1909-1910.

122A. Several specimens from the vicinity of Kuala Lumpur agree well with the description of this species, originally described from the Andamans, which is, I think, distinct from *A. sinensis*.

124A. Two specimens are now on record from the Peninsula: one from Perseverance Estate, Singapore, now in the Singapore Museum, and one in the Selangor Museum, from Malacca.

125. Very rare in the southern portion of the Peninsula, but commoner towards the north. Large series have been obtained from Trang.

128. A specimen shot, near Kuala Lumpur, in 1898 is the only Peninsular record for the Shoveller.

129. Occasionally met with on the Perak River, but rare.

130. Mr. McClelland, at that time District Officer at Temerloh, from whom Mr. Butler obtained the specimen, tells me that he is not certain that the bird was actually shot in the locality; it was merely purchased by him there as a skin.

132, 133. The shores of the southern portion of the Malay Peninsula are not suitable for Cormorants, and the most southerly recorded locality is Pulau Lalang, one of the Sembilan Islands, off the mouth of the Perak River. A solitary specimen of *P. carbo* was, however, shot on a fresh-water pond at Johore Bahru by Mr. Kloss in 1905.

134. Noted off the coast of Senggora, November, 1901, and near Pulau Tioman, S. China Sea, September, 1907.

135. Seen off Batu, Selangor coast, November, 1906, and at the Aroa Islands, Straits of Malacca, November, 1906, and June, 1907. Obtained near Pulau Tinggi, S. China Sea, June, 1908.

FAMILY *PHÆTHONTIDÆ*—TROPIC BIRDS.136. *Phæthon indicus*, *Hume*.FAMILY *SULIDÆ*—GANNETS.137. *Sula sula* (*Linn.*).FAMILY *PELECANIDÆ*—PELECANS.

- |                                       |  |   |
|---------------------------------------|--|---|
| 138. <i>Pelecanus roseus</i> ,<br>Gm. |  | 139. <i>Pelecanus philippinensis</i> ,<br>Gm. |
|---------------------------------------|--|---|

ORDER *ACCIPITRIFORMES*.FAMILY *VULTURIDÆ*—VULTURES.

- |   |  |  |
|---|--|--|
| 140. <i>Vultur tenuirostris</i><br>( <i>Hodgs.</i> ). |  | 142. <i>Otogyps calvus</i> ( <i>Scop.</i> ).           |
| 141. <i>Pseudogyps bengalensis</i><br>( <i>Gm.</i> ). |  | 142A. <i>Neophron ginginianus</i><br>( <i>Lath.</i> ). |

FAMILY *FALCONIDÆ*—EAGLES AND HAWKS.

- |  |  |   |
|--|--|---|
| 143. <i>Circus spilonotus</i> , <i>Kaup</i> .                      |  | 153. <i>Lophotriorchis kieneri</i><br>( <i>Geoffr.</i> ). |
| 144. <i>Circus melanoleucus</i> , <i>Forst.</i>                    |  | 154. <i>Ictinaetus malayensis</i><br>( <i>Gm.</i> ).      |
| 145. <i>Circus pygargus</i> , <i>Linn.</i>                         |  | 155. <i>Spizaetus limnætus</i><br>( <i>Horsf.</i> ).      |
| 146. <i>Circus ærginosus</i> , <i>Linn.</i>                        |  | 155A. <i>Spizaetus nepalensis</i><br>( <i>Hodgs.</i> ).   |
| 147. <i>Astur trivirgatus</i> ( <i>Temm.</i> ).                    |  | 156. <i>Spizaetus alboniger</i> ( <i>Blyth</i> ).         |
| 148. <i>Astur soloënsis</i> ( <i>Lath.</i> ).                      |  | 157. <i>Circæetus hypoleucus</i><br>( <i>Pall.</i> ).     |
| 149. <i>Astur badius</i> ( <i>Gm.</i> ).                           |  | 158. <i>Spilornis pallidus</i> ( <i>Wald.</i> ).          |
| 150. <i>Accipiter nisus</i> ( <i>Linn.</i> ).                      |  |   |
| 151. <i>Accipiter gularis</i> , <i>Temm.</i><br>and <i>Schleg.</i> |  |   |
| 152. <i>Eutolmoæetus pennatus</i><br>( <i>Gm.</i> ).               |  |   |

138. Dr. Abbott observed "a large white Pelecan" in Trang.

140, 141, 142. The southerly limit of the Vulture in the Malay Peninsula appears to be Kuala Kangsar on the western side and the north bank of the Pahang River on the east.

142A. According to Dr. Abbott, a large white Vulture is common in Trang and Penang. I have never seen it in the latter locality.

140. Shot near Taiping about seventeen years ago, and not met with since.

149. Recorded from Singapore by Dr. Hanitsch, but probably belonging to the Burmese race, *A. poliopsis*, *Hume*. A series from Trang have not yet been critically examined.

150. Two specimens in the Perak Museum, shot near Taiping many years ago, undoubtedly belong to this species.

151. I have followed Ogilvie-Grant in regarding the Malayan Besra as referable to *A. gularis*, and not to the typical *A. virgatus*. In the mountains, however, a small richly coloured bird is found approaching *A. rufotibialis* from Kina Balu, which may possibly be a distinct species. Further material is wanted before this point can be decided.

155A. A young bird with the under surface uniform buffy pink was obtained in the Langkawi group in March, 1909. From its large size (wing, 18 inches), and from the fact that the tarsus is feathered nearly down to the toes, it must, I think, be identified with this species.

157. The species is recorded from Ampang, near Kuala Lumpur, Selangor, by Mr. A. L. Butler, but the specimen is no longer extant.

## EAGLES AND HAWKS—(cont.)

- |   |   |
|---|---|
| 159. <i>Spilornis bacha</i> (Daud).             | 167. <i>Machærhamphus alcinus</i> ,<br>Westerm.   |
| 160. <i>Butastur indicus</i> (Gm.).             | 168. <i>Pernis cristatus</i> , Temm.              |
| 161. <i>Buteo desertorum</i> (Daud).            | 169. <i>Pernis tweeddalei</i> , Hume.             |
| 162. <i>Haliaetus leucogaster</i><br>(Gm.).     | 170. <i>Baza lophotes</i> , Temm.                 |
| 163. <i>Haliaetus leucocoryphus</i><br>(Pall.). | 171. <i>Baza jerdoni</i> (Blyth).                 |
| 164. <i>Haliastur intermedius</i><br>Gurney.    | 172. <i>Cerchneis saturata</i> (Blyth).           |
| 165. <i>Milvus govinda</i> (Sykes).             | 173. <i>Microhierax fringillarius</i><br>(Drap.). |
| 166. <i>Elanus cæruleus</i> (Desf.).            | 174. <i>Falco peregrinus</i> , Tunst.             |
|   | 175. <i>Falco severus</i> , Horsf.                |

## FAMILY PANDIONIDÆ—OSPREYS.

- |  |  |
|--|--|
| 176. <i>Pandion haliaetus</i><br>(Linn.).    | 177. <i>Polioaetus humilis</i> (Müll.<br>and Schleg.). |
| 178. <i>Polioaetus ichthyaetus</i> (Horsf.). |  |

## ORDER STRIGIFORMES—OWLS.

- |   |  |
|---|--|
| 179. <i>Asio otus</i> (Linn.).          | 188. <i>Ninox scutulata</i> , Raffles.       |
| 180. <i>Huhua orientalis</i> (Horsf.).  | 189. <i>Syrnium seloputo</i> (Horsf.).       |
| 181. <i>Ketupa ketupa</i> (Horsf.).     | [190. <i>Syrnium newarense</i><br>(Hodgs.).] |
| 181A. <i>Ketupa zeylonensis</i> , Gm.   | 191. <i>Syrnium maingayi</i> , Hume.         |
| 182. <i>Scops malayana</i> , Hay.       | 192. <i>Glaucidium brodiei</i><br>(Burton).  |
| [183. <i>Scops sunia</i> , Hodgs.]      | 193. <i>Photodilus badius</i><br>(Horsf.).   |
| 184. <i>Scops lempiji</i> (Horsf.).     | 194. <i>Strix javanica</i> (Horsf.).         |
| 185. <i>Scops sagittata</i> , Cassin.   |  |
| 186. <i>Scops rufescens</i> (Horsf.).   |  |
| 187. <i>Heteroscops vulpes</i> , Grant. |  |

161. Two specimens—adult and immature—obtained many years ago near Taiping are in the Perak Museum. A third has recently been obtained near Kuala Lumpur.

163. Equally common with *H. leucogaster* at Langkawi, 70 miles north of Penang, in December, 1907.

171. A rather immature bird from Taiping is in the Selangor Museum, and two specimens—one very young and one fully adult—have recently been obtained from Langkawi, and four more from Trang.

172. Though very much faded, two mounted specimens in the Singapore Museum appear to belong to this race. I obtained one specimen in Langkawi in November, 1907, and Dr. Abbott secured one at Trang in January, 1897.

175. No recent collector appears to have obtained this species, which is recorded from Malacca. It must be very rare in the Peninsula, though its crepuscular habits probably make it seem scarcer than is really the case.

179. A specimen obtained some years ago in Singapore is now in the Raffles Museum of that city.

180. Specimens of *Bubo coromandus* of reputed local origin, and attributed to this species, are in the Singapore Museum; some mistake has probably been made about locality.

181A. Four specimens from Trang, December, 1909. New record.

187. To the high mountains of Perak, Selangor and Pahang.

190. I am disinclined to believe in the existence of this species in the Peninsula. The two specimens recorded from Perak should probably be referred to *S. maingayi*.

191. Rare. I have obtained it from Kuala Tembeling, Pahang, and Ginting Bidei, 2,300 feet, Selangor.

## ORDER PSITTACIFORMES—PARROTS.

- |   |   |
|---|---|
| [195. <i>Palæornis fasciatus</i><br>( <i>P. L. S. Müll.</i> ).] | 197. <i>Psittinus incertus</i><br>( <i>Shaw.</i> ).   |
| 196. <i>Palæornis longicauda</i><br>( <i>Bodd.</i> ).           | 198. <i>Loriculus vernalis</i><br>( <i>Sparrm.</i> ). |
| 199. <i>Loriculus galgulus</i> ( <i>Linn.</i> ).                |   |

## ORDER CORACIIFORMES.

## FAMILY PODARGIDÆ—FROGMOUTHS.

- |   |  |
|---|--|
| 200. <i>Batrachostomus auritus</i><br>( <i>Gray.</i> ). | 201. <i>Batrachostomus stellatus</i><br>( <i>Gould.</i> ). |
| 202. <i>Batrachostomus affinis</i> ( <i>Blyth.</i> ).   |  |

## FAMILY CORACIDÆ—ROLLERS.

- |   |  |
|---|--|
| 203. <i>Coracias affinis</i> , <i>McClell.</i>  | 204. <i>Eurystomus orientalis</i><br>( <i>Linn.</i> ). |
| 205. <i>Eurystomus calonyx</i> , <i>Sharpe.</i> |  |

## FAMILY ALCEDINIDÆ—KINGFISHERS.

- |   |  |
|---|--|
| 206. <i>Pelargopsis amauroptera</i><br>( <i>Pears.</i> ). | 215. <i>Carcineutes pulchellus</i><br>( <i>Horsf.</i> ). |
| 207. <i>Pelargopsis malaccensis</i> ,<br><i>Sharpe.</i>   | 216. <i>Halcyon coromandus</i><br>( <i>Lath.</i> ).      |
| 208. <i>Pelargopsis burmanica</i> ,<br><i>Sharpe.</i>     | 217. <i>Halcyon smyrnensis</i><br>( <i>Linn.</i> ).      |
| 209. <i>Pelargopsis fraseri</i> , <i>Sharpe.</i>          | 218. <i>Halcyon pileatus</i> ( <i>Bodd.</i> ).           |
| 210. <i>Alcedo bengalensis</i> , <i>Gm.</i>               | 219. <i>Halcyon armstrongi</i> ,<br><i>Sharpe.</i>       |
| 211. <i>Alcedo euryzona</i> , <i>Temm.</i>                | 220. <i>Halcyon humii</i> , <i>Sharpe.</i>               |
| 212. <i>Alcedo meninting</i> , <i>Horsf.</i>              | 221. <i>Halcyon coneretus</i><br>( <i>Temm.</i> ).       |
| 213. <i>Ceyx tridactyla</i> ( <i>Pall.</i> ).             |  |
| 214. <i>Ceyx euerythra</i> , <i>Sharpe.</i>               |  |

## FAMILY BUCEROTIDÆ—HORNBILL.

- |   |   |
|---|---|
| 222. <i>Buceros rhinoceros</i> ( <i>Linn.</i> ).  | 224. <i>Anthracoceros convexus</i><br>( <i>Temm.</i> ). |
| 223. <i>Dichoceros bicornis</i> ( <i>Linn.</i> ). |   |

195. Seen at Trenggann by Davison, but not apparently procured.

198. A northern form extending as far south as Larut, and doubtfully to Klang.

203. Only recorded at present from the vicinity of Patani.

204, 205. Both these forms seem to be found in the Peninsula but are separated with very great difficulty as they grade into each other.

206. Found on Pulau Terutan, Pulau Langkawi and the Butang group, but not extending further south.

207. Under the name *Rhamphalcyon capensis hydrophila* Mr. Oberholser [Proc. U. S. Nat. Mus., xxxv., p. 676 (1909)] describes a race of *Pelargopsis malaccensis*, based on three specimens from Singapore, Lingga and Bintang Islands. I have examined skins from the latter locality, and also from other islands in the immediate vicinity, and fail to recognise any differences which justify separation, even subspecifically, from the mainland form.

211. Mountains of Trang, February, 1899 (Abbott). Also obtained by the Museum collectors in the same locality, 1909.



## HORN BILLS—(cont.)

- |  |   |
|--|---|
| 225. <i>Anthracoceros malabaricus</i><br>( <i>Gm.</i> ).   | 229. <i>Rhytidoceros subruficollis</i><br>( <i>Blyth</i> ). |
| 226. <i>Anthracoceros malayanus</i><br>( <i>Raffles</i> ). | 230. <i>Anorrhinus galeritus</i><br>( <i>Temm.</i> ).       |
| 227. <i>Cranorrhinus corrugatus</i><br>( <i>Temm.</i> ).   | 231. <i>Berenicornis comatus</i><br>( <i>Raffles</i> ).     |
| 228. <i>Rhytidoceros undulatus</i><br>( <i>Shaw</i> ).     | 232. <i>Rhinoplax vigil</i> ( <i>Forst.</i> ).              |

## FAMILY UPUPIDÆ—HOOPOES.

- 233.
- Upupa indica*
- ,
- Reichenb.*

## FAMILY MOROPIDÆ—BEE-EATERS.

- |  |  |
|--|--|
| 234. <i>Melittophagus swinhoii</i><br>( <i>Hume</i> ). | 236. <i>Merops philippinus</i> ,<br><i>Linn.</i>   |
| 235. <i>Merops sumatranus</i><br>( <i>Raffles</i> ).   | 237. <i>Nyctiornis amicta</i><br>( <i>Temm.</i> ). |

## FAMILY CAPRIMULGIDÆ—GOATSUCKERS.

- |   |   |
|---|---|
| 238. <i>Lyncornis cervineiceps</i> ,<br><i>Gould.</i> | 240. <i>Caprimulgus ambiguus</i> ,<br><i>Hartert.</i>               |
| 239. <i>Lyncornis temmincki</i> ,<br><i>Gould.</i>    | 241. <i>Caprimulgus jotaka</i> , <i>Temm.</i><br>and <i>Schleg.</i> |

## FAMILY CYPSELIDÆ—SWIFTS.

- |  |   |
|--|---|
| 242. <i>Collocalia innominata</i> ,<br><i>Hartert.</i>             | 249. <i>Chaetura leucopygialis</i> ,<br><i>Blyth.</i>     |
| 243. <i>Collocalia inexpectata</i> ,<br><i>Hume.</i>               | 250. <i>Cypselus pacificus</i> ( <i>Lath.</i> ).          |
| 244. <i>Collocalia linchi</i> , <i>Horsf.</i> and<br><i>Moore.</i> | 251. <i>Cypselus subfurcatus</i><br>( <i>Blyth</i> ).     |
| 245. <i>Collocalia gigas</i> , <i>Hartert.</i>                     | 252. <i>Tachornis infumata</i> ,<br><i>Selater.</i>       |
| 246. <i>Chaetura gigantea</i> ( <i>Temm.</i> ).                    | 253. <i>Macropteryx longipennis</i><br>( <i>Rafin.</i> ). |
| 247. <i>Chaetura indica</i> , <i>Hume.</i>                         | 254. <i>Macropteryx comata</i><br>( <i>Temm.</i> ).       |
| 248. <i>Chaetura cochinensis</i> ,<br><i>Oust.</i>                 |   |

225. Not met with south of Kedah. Numerous on Langkawi, and according to Dr. Abbott, the commonest Hornbill in Trang.

229. Met with in large flocks along the west coast during the north-east monsoon, hence Maingay's name "Hydrocissa migratorius."

233. Common in Trang.

238. Penang is the most southerly locality for this species. Common in Trang.

241. Possibly a resident in the mountain districts throughout the year; common on migration during the winter months.

246, 247. Both forms are found in the Malay Peninsula, *Chaetura indica* being commoner during the winter months and in the more northerly districts.

248. Recorded from the Semangko Pass, Selangor, and from Taiping, Perak.

250. Until quite recently a specimen in the British Museum from Penang was the only authority for the occurrence of this species in the Malay Peninsula. In October, 1907, however, it appeared in immense flocks in the vicinity of Kuala Lumpur, and was also found to be very abundant at the Semangko Pass in March, 1908.

## ORDER TROGONES—TROGONS.

- |   |  |
|---|--|
| 255. <i>Pyrotrogon neglectus</i> ,<br><i>Forbes and Robinson.</i> | 258. <i>Pyrotrogon duvauceli</i><br><i>(Temm.).</i>          |
| 256. <i>Pyrotrogon kasumba</i><br><i>(Raffles).</i>               | 259. <i>Pyrotrogon orrophæus</i> ,<br><i>Cab. and Heine.</i> |
| 257. <i>Pyrotrogon erythrocephalus</i> , <i>Gould.</i>            | 260. <i>Pyrotrogon orescius</i><br><i>(Temm.).</i>           |

## ORDER COCCYGES—CUCKOOS.

- |  |   |
|--|---|
| 261. <i>Coccytes coromandus</i><br><i>(Linn.).</i>         | 274. <i>Chalcococcyx maculatus</i><br><i>(Gm.).</i>       |
| 262. <i>Surniculus lugubris</i><br><i>(Horsf.).</i>        | 275. <i>Chalcococcyx basalis</i><br><i>(Horsf.).</i>      |
| 263. <i>Hierococcyx sparveroides</i><br><i>(Vig.).</i>     | 276. <i>Chalcococcyx malayanus</i><br><i>(Raffles).</i>   |
| 264. <i>Hierococcyx nasicolor</i><br><i>(Hodgs.).</i>      | 277. <i>Eudynamis honorata</i><br><i>(Linn.).</i>         |
| 265. <i>Hierococcyx nanus</i> , <i>Hume.</i>               | 278. <i>Centropus rectunguis</i> ,<br><i>Strickl.</i>     |
| 266. <i>Hierococcyx bocki</i> , <i>Wardl.-Rams.</i>        | 279. <i>Centropus sinensis</i> ( <i>Steph.</i> ).         |
| 267. <i>Cuculus micropterus</i> ,<br><i>Gould.</i>         | 280. <i>Centropus javanicus</i><br><i>(Dumont).</i>       |
| 268. <i>Cuculus canorus</i> , <i>Linn.</i>                 | 281. <i>Zanclostomus javanicus</i><br><i>(Horsf.).</i>    |
| 269. <i>Cuculus saturatus</i> , <i>Hodgs.</i>              | 282. <i>Rhopodytes tristis</i> ( <i>Less.</i> ).          |
| 270. <i>Cuculus poliocephalus</i> ,<br><i>Lath.</i>        | 283. <i>Rhopodytes diardi</i> ( <i>Less.</i> ).           |
| 271. <i>Penthoceryx sonnerati</i> ,<br><i>(Lath.).</i>     | 284. <i>Rhopodytes sumatranus</i><br><i>(Raffles).</i>    |
| 272. <i>Cacomantis merulinus</i><br><i>(Scop.).</i>        | 285. <i>Rhinorhina chlorophæa</i><br><i>(Raffles).</i>    |
| 273. <i>Chalcococcyx zanthorhynchus</i> ( <i>Horsf.</i> ). | 286. <i>Urococcyx erythrognaethus</i><br><i>(Hartl.).</i> |

## FAMILY CAPITONIDÆ—BARBETS.

- |   |  |
|---|--|
| 287. <i>Calorhamphus hayi</i><br><i>(J. E. Grey).</i> | 290. <i>Chotorhea mystacophanes</i><br><i>(Temm.).</i> |
| 288. <i>Chotorhea chrysopogon</i><br><i>(Temm.).</i>  | 291. <i>Cyanops henrici</i> ( <i>Temm.</i> ).          |
| 289. <i>Chotorhea versicolor</i><br><i>(Raffles).</i> | 292. <i>Cyanops ramsayi</i><br><i>(Wald.).</i>         |
| 294. <i>Thereiceryx lineatus</i> ( <i>Vicill.</i> ).  | 293. <i>Cyanops oorti</i> ( <i>Müll.</i> ).            |

259. Not known north of Klang.

266. A somewhat immature specimen from the Taiping Hills has been identified as this species by comparison at the British Museum and also at Tring.

270. High mountains of Selangor, January, 1905, and March, 1908.

282. Not occurring south of Kedah, except on the high mountains of Batang Padang. The prevalent form in Tring.

292, 293, 298. All confined to the zone above 3,000 feet.

294. On the western side not recorded south of Kedah; on the east, it has been met with in Central Pahang.

## BARBETS—(cont.)

- |   |   |
|---|---|
| 295. <i>Mesobucco duvauceli</i> (Less.).<br>296. <i>Mesobucco cyanotis</i> (Blyth). | 297. <i>Zantholæma hæmatocephala</i> (P. L. S. Müll.).<br>298. <i>Psilopogon pyrolophus</i> (S. Müll.). |
|---|---|

## FAMILY INDICATORIDÆ—HONEY-GUIDES.

- 299.
- Indicator malayanus*
- , Sharpe.

## FAMILY PICIDÆ—WOODPECKERS.

- |  |   |
|--|---|
| 300. <i>Gecinus vittatus</i> (Vieill.).<br>301. <i>Gecinus viridanus</i> (Blyth).<br>302. <i>Gecinus robinsoni</i> , Grant.<br>303. <i>Gecinus rodgeri</i> , Hartert and Butler.<br>304. <i>Gecinus observandus</i> , Hartert.<br>305. <i>Gauropicoides rafflesi</i> (Vig.).<br>306. <i>Gecinulus viridis</i> , Blyth.<br>307. <i>Iyngipicus pumilus</i> , Hargitt.<br>308. <i>Iyngipicus canicapillus</i> , Blyth.<br>309. <i>Iyngipicus auritus</i> (Gm.).<br>[310. <i>Dendrocopos analis</i> (Horsf.).]<br>311. <i>Pyrhopicus pyrrhotis</i> , (Hodgs.).<br>312. <i>Pyrhopicus porphomelas</i> (Boie). | 313. <i>Miglyptes grammithorax</i> (Malh.).<br>314. <i>Miglyptes tukki</i> (Less.).<br>315. <i>Micropternus brachyurus</i> (Vieill.).<br>316. <i>Micropternus phæoceps</i> , Blyth.<br>317. <i>Tiga javanensis</i> (Ljung).<br>318. <i>Chrysophlegma malaccense</i> (Lath.).<br>319. <i>Chrysophlegma humii</i> , Hargitt.<br>320. <i>Chrysophlegma wrayi</i> , Sharpe.<br>321. <i>Chrysocolaptes guttieristatus</i> (Tick.).<br>322. <i>Chrysocolaptes validus</i> (Temm.).<br>323. <i>Hemicercus sordidus</i> (Eyton).<br>324. <i>Hemicercus canente</i> (Less.). |
|--|---|

295, 296. Birds from Trang are typical *M. cyanotis* with bright blue ear-coverts. Specimens from Northern and Central Perak have the ear-coverts mingled with black, sometimes nearly black; while those from Selangor have only the faintest tinge of blue, coming closest to the typical *M. duvauceli*. The two forms are only slightly differentiated subspecies.

299. A specimen of this species was obtained at Ginting Bidei, Selangor-Pahang border, 2,300 feet, in April, 1908. The Malayan bird is perhaps better kept distinct from the Bornean *I. archipelagicus* under the name *I. malayanus*, Sharpe. Another specimen agreeing with the above was obtained in the Trang-Patelung border in December, 1909.

301. Like so many other birds, this species attains its southern limit in Patani and Kedah. The bird from Trang is *G. viridanus*, but that from Langkawi is *G. vittatus*.

302. At present known only from the types from Gunong Tahan.

306. Within the last two years this species has been obtained in large number from numerous localities from Northern Perak to Southern Selangor at altitudes varying from about 500 to 4,000 feet.

310. This Woodpecker is recorded from Malacca, but I very much doubt if it really occurs there; no recent collectors have met with it.

## WOODPECKERS—(cont.)

- |  |  |
|--|--|
| 325. <i>Alphonerpes pulverulentus</i> (Temm.). | 327. <i>Picumnus innominatus</i> (Burton). |
| 326. <i>Thriponax javensis</i> (Horsf.).       | 328. <i>Sasia everetti</i> , Hargitt.      |

## ORDER EURLÆMIFORMES—BROADBILLS.

- |  |  |
|--|--|
| 329. <i>Calyptomena viridis</i> , <i>Raffles</i> .       | 333. <i>Eurylæmus ochromelas</i> , <i>Raffles</i> .    |
| 330. <i>Psarisomus dalhousiæ</i> (Jameson).              | 334. <i>Corydon sumatranus</i> , (Raffles).            |
| 331. <i>Serilophus rothschildi</i> , Hartert and Butler. | 335. <i>Cymborhynchus malaccensis</i> , <i>Salvad.</i> |
| 332. <i>Eurylæmus javanicus</i> , <i>Horsf.</i>          |  |

## ORDER PASSERES—PERCHING BIRDS.

## FAMILY PITTIDÆ—GROUND-THRUSHES.

- |  |  |
|--|--|
| 336. <i>Pitta cærulea</i> , <i>Raffles</i> .   | 340. <i>Pitta cucullata</i> , <i>Hartl.</i>                    |
| 337. <i>Pitta cyanoptera</i> , <i>Temm.</i>    | 341. <i>Eucichla boschii</i> , <i>Müll.</i> and <i>Schleg.</i> |
| 338. <i>Pitta megarhyncha</i> , <i>Schleg.</i> | 342. <i>Eucichla gurneyi</i> , <i>Hume.</i>                    |
| 339. <i>Pitta coccinea</i> , <i>Eyton.</i>     |  |

## FAMILY HIRUNDINIDÆ—SWALLOWS.

- |   |  |
|---|--|
| 343. <i>Hirundo rustica</i> , <i>Linn.</i>    | 345. <i>Hirundo javanica</i> , <i>Sparrrm.</i> |
| 344. <i>Hirundo gutturalis</i> , <i>Scop.</i> | 346. <i>Hirundo badia</i> , <i>Cass.</i>       |

## FAMILY MUSCICAPIDÆ—FLY-CATCHERS.

- |   |  |
|---|--|
| 347. <i>Hemichelidon fuliginosa</i> , <i>Hodys.</i> | 350A. <i>Cyornis malayensis</i> , <i>Robinson.</i> |
| 348. <i>Hemichelidon ferruginea</i> , <i>Hodys.</i> | 351. <i>Cyornis ruecki</i> , <i>Oust.</i>          |
| 349. <i>Alseonax latirostris</i> (Raffles).         | 352. <i>Cyornis unicolor</i> , <i>Blyth.</i>       |
| 350. <i>Cyornis conereta</i> (S. Müll.).            | 353. <i>Cyornis tickellæ</i> , <i>Blyth.</i>       |
|   | 353A. <i>Cyornis dialilæma</i> (Salvad.).          |
| 354. <i>Cyornis frenata</i> , <i>Hume.</i>          |  |

327. The only recorded specimens from the Malay Peninsula are one from the Larut Hills, obtained by Mr. Wray, and now in the British Museum, and three from the hills above the Semangko Pass in the Selangor Museum.

328. I have, following Hartert, used Hargitt's name for the Malayan form of the rufous Piculet. Young specimens in the uniform olive green plumage of the type figured in the "British Museum Catalogue," Vol. xviii., pl. xx., are not uncommon in the earlier months of the year.

330. Larut Hills, Perak; Semangko Pass, Selangor; Gunong Tahan, Pahang.

331. Temengoh, Upper Perak; Gunong Ijau, Central Perak (type locality); Semangko Pass, Selangor; Ginting Bidei, Selangor. Ranging in altitude from about 500 to 4,000 feet.

341. Fairly common in the vicinity of limestone hills in Upper Perak and at Kota Glanggi, Southern Pahang. Very common in Trang, as is No. 342.

351. Very doubtfully distinct from *C. unicolor*.

353A. A pair were collected in Trang by Dr. Abbott.

354. Not uncommon in Johore (Kloss); there is one specimen in the Selangor Museum from Pulau Bintang, Rhio Archipelago, south of Singapore.

## FLYCATCHERS (cont.)

- |   |  |
|---|--|
| 355. <i>Cyornis erythrogaster</i> ,<br><i>Sharpe.</i>   | 370. <i>Rhipidura albicollis</i><br>( <i>Vieill.</i> ).    |
| 356. <i>Cyornis sumatrensis</i> ,<br><i>Sharpe.</i>     | 371. <i>Rhipidura perlata</i> , <i>S. Müll.</i>            |
| 357. <i>Cyornis turcosa</i> ,<br><i>Brüggem.</i>        | 372. <i>Rhipidura javanica</i><br>( <i>Sparrm.</i> ).      |
| 357A. <i>Cyornis elegans</i><br>( <i>Temm.</i> ).       | 373. <i>Terpsiphone affinis</i><br>( <i>Blyth.</i> ).      |
| 358. <i>Nitidula hodgsoni</i><br>( <i>Moore</i> ).      | 374. <i>Terpsiphone princeps</i><br>( <i>Temm.</i> ).      |
| 359. <i>Anthipes malayana</i> ,<br><i>Sharpe.</i>       | 375. <i>Terpsiphone incii</i> ( <i>Gould.</i> ).           |
| 360. <i>Niltava decipiens</i> , <i>Salvad.</i>          | 376. <i>Philentoma velatum</i><br>( <i>Temm.</i> ).        |
| 361. <i>Muscitrea cinerea</i> , <i>Blyth.</i>           | 377. <i>Philentoma pyrrhopterum</i><br>( <i>Temm.</i> ).   |
| 362. <i>Erythromyias muelleri</i><br>( <i>Blyth.</i> ). | 378. <i>Rhinomyias pectoralis</i><br>( <i>Salvad.</i> ).   |
| 363. <i>Poliomyias luteola</i> ( <i>Pall.</i> ).        | 379. <i>Culicicapa ceylonensis</i><br>( <i>Swains.</i> ).  |
| 364. <i>Muscicapula malayana</i> ,<br><i>Grant.</i>     | 380. <i>Cryptolopha trivirgata</i><br>( <i>Strickl.</i> ). |
| 365. <i>Muscicapula westermanni</i> ,<br><i>Sharpe.</i> | 381. <i>Cryptolopha butleri</i> ,<br><i>Hartert.</i>       |
| 366. <i>Gerygone modiglianii</i> ,<br><i>Salvad.</i>    | 382. <i>Cryptolopha davisoni</i> ,<br><i>Sharpe.</i>       |
| 367. <i>Xanthopygia xanthopygia</i><br>( <i>Hay</i> ).  | 383. <i>Abrornis schwaneri</i><br>( <i>Temm.</i> ).        |
| 368. <i>Cyanoptila bella</i> ( <i>Hay</i> ).            | 384. <i>Stoparola melanops</i><br>( <i>Vig.</i> ).         |
| 369. <i>Hypothymis azurea</i><br>( <i>Bodd.</i> ).      |  |
| 385. <i>Stoparola thalassinoides</i> ( <i>Cab.</i> ).   |  |

355. Kuala Lumpur, Selangor and Pulau Bintang.

356. One or two specimens in the Selangor Museum from Pulau Langkawi agree fairly well with Hartert's description of a specimen from Sungai Lebeh, Kelantan, notably in the pure white belly and under tail coverts and in size [Hartert, Nov. Zool., ix., p. 549 (1902)]. Specimens of this genus are, however, in the absence of comparative material, exceedingly difficult to determine.

357A. Recorded by Hartert (*loc. cit. supra* p. 550) from Pahang. I have not yet met with specimens that I can with certainty identify with the species.

358. Two specimens from the Semangko Pass, March, 1908.

361. Kuala Selangor, Selangor coast and Langkawi. Also from Singapore.

366. The Peninsular localities now known are Trang (Abbott), Taiping, Perak; Gunong Tahan, Pahang (Waterstradt); and Kuala Pahang (Davison, type of *G. pectoralis*).

381. The types are from Gunong Ijau, Perak; three other specimens were obtained on the Semangko Pass, Selangor, in February, 1908, and one at Telöm in November, 1908.

383. Fairly common throughout the Peninsula in the vicinity of the main range from Trang to Ginting Bidei, Selangor, and from 500 to 3,500 feet.

384. All the specimens in the Taiping and Selangor Museums must be referred to *S. thalassinoides*, and not to this species, which probably does not extend beyond to the extreme north of the Peninsula.

## FAMILY CAMPOPHILAGIDÆ—CUCKOO-SHRIKES.

- |   |  |
|---|--|
| 386. <i>Artamides larutensis</i> ,<br><i>Sharpe</i> .     | 391. <i>Pericrocotus montanus</i> ,<br><i>Salvad.</i>        |
| 387. <i>Artamides sumatrensis</i><br>( <i>S. Mill.</i> ). | 392. <i>Pericrocotus zanthogaster</i><br>( <i>Raffles</i> ). |
| 388. <i>Volvocivora neglecta</i><br>( <i>Hume</i> ).      | 393. <i>Pericrocotus igneus</i> , <i>Blyth</i> .             |
| 389. <i>Pericrocotus flammifer</i> ,<br><i>Hume</i> .     | 394. <i>Pericrocotus cinereus</i> ,<br><i>Lafr.</i>          |
| 390. <i>Pericrocotus fraterculus</i> ,<br><i>Swinh.</i>   | 395. <i>Lalage terat</i> ( <i>Bodd.</i> ).                   |
|   | 396. <i>Lalage culminata</i> ( <i>Hay</i> ).                 |

## FAMILY PYCNONOTIDÆ—BULBULS.

- |   |   |
|---|---|
| 397. <i>Ægithina viridissima</i> ( <i>Bp.</i> ).                        | 414. <i>Microtarsus cinereiventris</i> ( <i>Blyth</i> ).              |
| 398. <i>Ægithina tiphia</i> ( <i>Linn.</i> ).                           | 415. <i>Microtarsus melanoleucus</i><br>( <i>Eyton</i> ).             |
| 399. <i>Æthorhynchus lafresnayei</i><br>( <i>Hartl.</i> ).              | 416. <i>Criniger salangæ</i> , <i>Sharpe</i> .                        |
| 400. <i>Chloropsis hardwickii</i> , <i>Jard.</i><br>and <i>Selby</i> .  | 417. <i>Criniger tephrogenys</i> , <i>Jard.</i><br>and <i>Selby</i> . |
| 401. <i>Chloropsis zosterops</i> ( <i>Vig.</i> ).                       | 418. <i>Criniger ochraceus</i> , <i>Moore</i> .                       |
| 402. <i>Chloropsis chlorocephala</i> ,<br><i>Wald.</i>                  | 419. <i>Criniger finschi</i> , <i>Salvad.</i>                         |
| 403. <i>Chloropsis icterocephala</i><br>( <i>Less.</i> ).               | 420. <i>Alophoixus phaeocephalus</i><br>( <i>Hartl.</i> ).            |
| 404. <i>Chloropsis cyanopogon</i><br>( <i>Temm.</i> ).                  | 421. <i>Tricholestes criniger</i><br>( <i>Blyth</i> ).                |
| 405. <i>Irena cyanea</i> , <i>Begbie</i> .                              | 422. <i>Trachycomus ochrocephalus</i><br>( <i>Gm.</i> ).              |
| 406. <i>Irena puella</i> ( <i>Lath.</i> ).                              | 423. <i>Pycnonotus analis</i> ( <i>Horsf.</i> ).                      |
| 407. <i>Hemixus cinereus</i> ( <i>Blyth</i> ).                          | 424. <i>Pycnonotus finlaysoni</i><br>( <i>Strickl.</i> ).             |
| 408. <i>Hemixus malaccensis</i><br>( <i>Blyth</i> ).                    | 425. <i>Pycnonotus blanfordi</i> , <i>Jerd.</i>                       |
| 409. <i>Iole olivacea</i> , <i>Blyth</i> .                              | 426. <i>Pycnonotus robinsoni</i> ,<br><i>Grant</i> .                  |
| 410. <i>Iole peracensis</i> , <i>Hartert</i> and<br><i>Butler</i> .     | 427. <i>Pycnonotus plumosus</i> ,<br><i>Blyth</i> .                   |
| 411. <i>Iole virescens</i> , <i>Blyth</i> .                             | 428. <i>Pycnonotus simplex</i> ,<br><i>Less.</i>                      |
| 412. <i>Euptilosus euptilosus</i> ( <i>Jard.</i><br>and <i>Selby</i> ). | 429. <i>Pycnonotus salvadorii</i> ,<br><i>Sharpe</i> .                |
| 413. <i>Microtarsus melanocephalus</i> ( <i>Gm.</i> ).                  |   |
| 430. <i>Otocompsa emeria</i> ( <i>Linn.</i> ).                          |   |

391. *Pericrocotus wrayi*, Sharpe, and *Pericrocotus croceus*, Sharpe, have been shown to be synonyms or aberrations of this species, originally described from the mountains of Sumatra.

402, 406. Not known south of Trang, whence there are specimens in the Selangor Museum.

418. I have compared a co-type and three topotypes of *Criniger sordidus*, Richmond, Proc. U. S. Nat. Mus., xxxii., p. 320 (1900), with numerous specimens of this species from various localities from Central Perak to Southern Selangor and Pahang, and can detect no very material differences.

425. Listed by Bonhote, from Biserat Jalor in the interior of the Patani States on the eastern side of the Peninsula (P. Z. S., 1901 (i.), p. 62).

426. As yet only known from the types collected on the coast of Patani.

## BULBULS—(cont.)

431. *Otocompsa flaviventris* (Tickell).  
 432. *Rubigula cyaniventris* (Blyth).  
 433. *Rubigula weberi* (Hume).

## FAMILY TIMELIIDÆ—BABBLERS.

- |   |   |
|---|---|
| 434. <i>Eupetes macrocerus</i> (Temm.).         | 447. <i>Erythrocichla bicolor</i> (Less.).          |
| 435. <i>Trochalopteron peninsulæ</i> , Sharpe.  | 448. <i>Drymatocataphus nigrocapitatus</i> (Eyton). |
| 435A. <i>Gampsorhynchus saturator</i> , Sharpe. | 449. <i>Drymatocataphus tickelli</i> (Blyth).       |
| 436. <i>Pomatorhinus borneensis</i> , Cab.      | 450. <i>Æthostoma rostratum</i> (Blyth).            |
| 437. <i>Pomatorhinus olivaceus</i> , Blyth.     | 451. <i>Setaria magna</i> (Eyton).                  |
| 438. <i>Pomatorhinus wrayi</i> (Sharpe).        | 452. <i>Setaria cinerea</i> (Eyton).                |
| 439. <i>Melanocichla lugubris</i> (S. Müll.).   | 453. <i>Setaria albigularis</i> (Blyth).            |
| 440. <i>Rhinocichla mitrata</i> (S. Müll.).     | 454. <i>Setaria affinis</i> (Blyth).                |
| 441. <i>Timelia jerdoni</i> , Walden.           | 455. <i>Setaria melanocephala</i> (Davison).        |
| 442. <i>Pellorneum subochraceum</i> , Swinh.    | 456. <i>Anuropsis malaccensis</i> , Hartl.          |
| 443. <i>Turdinus olivaceus</i> (Strickl.).      | 458. <i>Turdinulus granti</i> , Richm.              |
| 443A. <i>Turdinus sepiarius</i> (Horsf.).       | 459. <i>Corythocichla leucosticta</i> , Sharpe.     |
| 444. <i>Turdinus magnirostris</i> , Moore.      | 460. <i>Alcippe peracensis</i> , Sharpe.            |
| 445. <i>Turdinus macrodactylus</i> , Strickl.   | 460A. <i>Alcippe phayrei</i> , Blyth.               |
| 446. <i>Turdinus loricatus</i> (S. Müll.).      | 461. <i>Alcippe cinerea</i> , Blyth.                |
|   | 462. <i>Pseudominla soror</i> (Sharpe).             |
|   | 463. <i>Stachyris davisoni</i> , Sharpe.            |
|   | 463A. <i>Stachyris nigriceps</i> (Hodgs.).          |

433. Rather rare in the southern half of the Peninsula. Exceedingly abundant at Temengoh, Upper Perak, in July and August, 1909.

437. Specimens from Trang are in the Selangor Museum.

439. *Melanocichla peninsularis*, Sharpe, from the mountains of Perak and Selangor is identical with this species, originally described from Sumatra.

442. One specimen from Slim, S. Perak: otherwise the most southerly recorded locality is Taiping; north of that point the species is very abundant.

443A. Very closely allied to, but quite distinct from, *T. olivaceus*.

446. Hitherto known only from Sumatra. Met with sparingly in Selangor at Semangko and Ginting Bidei.

449. Fairly common along the main range from Trang to Ginting Bidei at heights of from 500 to 4,000 feet.

455. Only known from the type and one other specimen, both from Pahang.

458. *Turdinulus humei*, Hartert, is a synonym of this species, of which there is a co-type and several topotypes from Trang in the Selangor Museum.

463A. Mr. Richmond, of the United States National Museum, states that there are specimens from Trang in Dr. Abbott's collection.

## BABBLERS—(cont.)

- |   |  |
|---|--|
| 464. <i>Stachyris polioaster</i> ,<br><i>Hume</i> .               | 475. <i>Myiophoneus dichrorhynchus</i> ,<br><i>Salvad.</i> |
| 465. <i>Stachyris poliocephala</i><br>( <i>Temm.</i> ).           | 476. <i>Myiophoneus robinsoni</i> ,<br><i>Grant.</i>       |
| 466. <i>Stachyris nigricollis</i><br>( <i>Temm.</i> ).            | 476A. <i>Myiophoneus temmincki</i> ,<br><i>Vig.</i>        |
| 467. <i>Stachyris leucotis</i> ( <i>Strickl.</i> ).               | 477. <i>Brachypteryx wrayi</i> , <i>Grant.</i>             |
| 468. <i>Stachyris maculata</i><br>( <i>Temm.</i> ).               | 478. <i>Sibia simillima</i> , <i>Salvad.</i>               |
| 469. <i>Stachyris bocagei</i> , <i>Salvad.</i>                    | 479. <i>Siva malayana</i> , <i>Hartert.</i>                |
| 469A. <i>Thringorhina guttata</i><br>( <i>Blyth.</i> ).           | 480. <i>Siva sordidior</i> , <i>Sharpe.</i>                |
| 471. <i>Kenopia striata</i> ( <i>Blyth.</i> ).                    | 481. <i>Herpornis zantholeuca</i> ,<br><i>Hodgs.</i>       |
| 472. <i>Cyanoderma erythropterus</i><br>( <i>Blyth.</i> ).        | 482. <i>Cutia cervinierissa</i> , <i>Sharpe.</i>           |
| 473. <i>Macronus ptilosus</i> , <i>Jard.</i><br>and <i>Selby.</i> | 483. <i>Pterythius æralatus</i><br>( <i>Tickell.</i> ).    |
| 474. <i>Mixornis gularis</i> ( <i>Raffles.</i> ).                 | 484. <i>Pterythius tahanensis</i> ,<br><i>Hartert.</i>     |
|   | 485. <i>Mesia argentauris</i> , <i>Hodgs.</i>              |

## FAMILY TROGLODITIDÆ—WRENS.

486. *Pnoepyga lepida*, *Salvad.*

## FAMILY TURDIDÆ—THRUSHES.

- |   |  |
|---|--|
| 487. <i>Geocichla interpres</i><br>( <i>Temm.</i> ).  | 491. <i>Oreocichla affinis</i> ,<br><i>Richm.</i>              |
| 488. <i>Geocichla citrina</i> ( <i>Lath.</i> ).       | 492. <i>Turdus obscurus</i> ( <i>Gm.</i> ).                    |
| 489. <i>Geocichla innotata</i><br>( <i>Blyth.</i> ).  | 493. <i>Petrophila solitaria</i><br>( <i>P. L. S. Müll.</i> ). |
| 490. <i>Cichloselys davisoni</i><br>( <i>Hume.</i> ). | 493A. <i>Petrophila cyanea</i> ( <i>Linn.</i> ).               |

469. I have examined the type of *Stachyris chrysops*, Richmond, from Trang and compared it with a large number of other specimens from the Federated Malay States and find them identical. The proper name for them is, I think, *Stachyris bocagei* (Salvad.), of which the type locality is West Sumatra.

469A. Occurs in Dr. Abbott's collection from Trang.

476. High mountains of Selangor.

476A. Very numerous on Pulau Terutau and Pulau Langkawi. Mr. Richmond considers the species to be *M. eugenei*, but it possesses pale tips to the median wing coverts, which excludes that species.

486. Larut Hills; Gunong Batu Puteh, South Perak; Semangko Pass, Selangor; Gunong Tahan, Pahang.

487, 491. From Trang. [United States National Museum (Abbott Coll.).]

488. Three specimens from Pulau Langkawi and Pulau Terutau are in the Perak and Selangor Museums. Two of them are somewhat intermediate between this species and *G. innotata*. Large number were also obtained in Trang.

490. As Hume himself considered, it is more than doubtful if this so-called species can be separated from *C. siberica* (Pall.).

493. Langkawi, March, 1909.

493A. Near Kuala Lumpur, August, 1908.



## THRUSHES—(cont.)

494. <i>Petrophila gularis</i> ( <i>Swinh.</i> ).	499A. <i>Notodela leucura</i> ( <i>Hodgs.</i> ).
495. <i>Henicurus leschenaulti</i> ( <i>Vieill.</i> ).	500. <i>Copsychus musicus</i> ( <i>Raffles.</i> ).
496. <i>Henicurus schistaceus</i> ( <i>Hodgs.</i> ).	501. <i>Cittocinclera macrura</i> ( <i>Gm.</i> ).
497. <i>Hydrocichla ruficapilla</i> ( <i>Temm.</i> ).	502. <i>Trichixus pyrrhopygus</i> ( <i>Less.</i> ).
498. <i>Hydrocichla frontalis</i> ( <i>Blyth.</i> ).	503. <i>Pratincola maura</i> ( <i>Pall.</i> ).
499. <i>Larvivora cyanea</i> ( <i>Pall.</i> ).	504. <i>Pratincola caprata</i> ( <i>Linna.</i> ).

## FAMILY SYLVIIDÆ—WARBLERS.

505. <i>Acrocephalus orientalis</i> , <i>Temm. and Schleg.</i>	515. <i>Arundinax ædon</i> ( <i>Pall.</i> ).
506. <i>Locustella lanceolata</i> ( <i>Temm.</i> ).	516. <i>Acanthopneuste tenellipes</i> ( <i>Swinh.</i> ).
507. <i>Sutoria sutoria</i> ( <i>Forst.</i> ).	516A. <i>Acanthopneuste supercili-</i> <i>osus</i> ( <i>Gm.</i> ).
508. <i>Sutoria maculicollis</i> ( <i>Moore.</i> ).	517. <i>Acanthopneuste trochi-</i> <i>loides</i> , <i>Sundev.</i>
509. <i>Orthotomus atrigularis</i> ( <i>Temm.</i> ).	518. <i>Acanthopneuste borealis</i> ( <i>Blas.</i> ).
510. <i>Orthotomus ruficeps</i> ( <i>Less.</i> ).	519. <i>Acanthopneuste coronatus</i> ( <i>Temm.</i> ).
511. <i>Orthotomus cineraceus</i> ( <i>Blyth.</i> ).	520. <i>Acanthopneuste magni-</i> <i>rostris</i> ( <i>Blyth.</i> ).
512. <i>Cisticola cisticola</i> ( <i>Temm.</i> ).	521. <i>Phyllergates cinereicollis</i> , <i>Sharpe.</i>
513. <i>Cisticola exilis</i> ( <i>Vig. and</i> <i>Horsf.</i> ).	522. <i>Suya waterstradti</i> , <i>Hartert.</i>
514. <i>Franklinia rufescens</i> ( <i>Blyth.</i> ).	523. <i>Burnesia flaviventris</i> ( <i>Deless.</i> ).

494. The Selangor Museum possesses one specimen of this rare Rock-thrush from the Taiping Hills.

496. Ulu Selama, N.-E. Perak; Gunong Ijau, Central Perak; Semangko Pass, Selangor.

499A. A single specimen trapped by Butler on Gunong Ijau remained for many years the sole record of this species for the Malay Peninsula; in August, 1909, however, it was found to be quite common in the same locality.

503. At present only recorded from Singapore (Kloss).

504. Sporadic in winter in the northern parts of the Peninsula.

505. Common in reed beds, near Kuala Lumpur and Johore Bahru, during the early months of the year.

506. Trang; Batu, Selangor coast; Aroa Islands, Straits of Malacca; Singapore.

516A. Trang (Abbott Coll.).

519. High mountains of Perak, Selangor and Pahang.

521. I have followed Grant in placing the Malayan form with this Bornean species rather than with *P. cucullatus*, to which it has been referred by Sharpe.

522. As yet found on Gunong Tahan only.

## FAMILY LANIIDÆ—SHRIKES.

- |   |   |
|---|---|
| 524. <i>Hemipus obscurus</i> ( <i>Horsf.</i> ).         | 528. <i>Lanius bentet</i> ( <i>Horsf.</i> ).    |
| 525. <i>Hemipus picatus</i> ( <i>Sykes</i> ).           | 529. <i>Lanius tigrinus</i> , <i>Drap.</i>      |
| 526. <i>Tephrodornis gularis</i><br>( <i>Raffles</i> ). | 530. <i>Lanius luconiensis</i> ( <i>Bp.</i> ).  |
| 527. <i>Platylophus ardesiacus</i> ,<br><i>Cab.</i>     | 531. <i>Lanius cristatus</i> , <i>Linn.</i>     |
|   | 532. <i>Lanius superciliosus</i> , <i>Lath.</i> |

## FAMILY PARIDÆ—TITMICE.

- |  |   |
|--|---|
| 533. <i>Parus cinereus</i> ( <i>Vieill.</i> ). | 534. <i>Melanochlora flavocristata</i><br>( <i>Lafr.</i> ). |
|--|---|

## FAMILY SITTIDÆ—NUT-HATCHERS.

- |   |   |
|---|---|
| 535. <i>Dendrophila azurea</i><br>( <i>Less.</i> ). | 536. <i>Dendrophila frontalis</i><br>( <i>Swains</i> ). |
| 537. <i>Dendrophila saturator</i> , <i>Hartert.</i> |   |

## FAMILY CORVIDÆ—CROWS.

- |   |  |
|---|--|
| 538. <i>Corvus macrorhynchus</i> ,<br><i>Wagl.</i>    | 540. <i>Cissa robinsoni</i> , <i>Grant.</i>          |
| 539. <i>Corvus enca</i> , <i>Horsf.</i>               | 541. <i>Crypsirhina varians</i><br>( <i>Lath.</i> ). |
| 542. <i>Platysmurus leucopterus</i> ( <i>Temm.</i> ). |  |

## FAMILY DICRURIDÆ—KING-CROWS.

- |   |  |
|---|--|
| 543. <i>Dicrurus annectens</i> , <i>Hodgs.</i>      | 546. <i>Chaptia malayensis</i><br>( <i>Hay</i> ).      |
| 544. <i>Dicrurus nigrescens</i> ,<br><i>Oates.</i>  | 547. <i>Bhringa remifer</i> ( <i>Temm.</i> ).          |
| 545. <i>Dicrurus leucogenys</i> ,<br><i>Walden.</i> | 548. <i>Dissemurus paradiseus</i><br>( <i>Linn.</i> ). |

## FAMILY ORIOLIDÆ—ORIOLES.

- |  |  |
|--|--|
| 549. <i>Oriolus indicus</i> , <i>Jerd.</i>           | 551. <i>Oriolus zanthonotus</i> , <i>Horsf.</i>            |
| 550. <i>Oriolus melanocephalus</i> ,<br><i>Linn.</i> | 552. <i>Oriolus consanguineus</i> ,<br><i>Wardl.-Rams.</i> |

## FAMILY STURNIDÆ—STARLINGS.

- |  |   |
|--|---|
| 553. <i>Eulabes intermedia</i><br>( <i>Hay</i> ).    | 556. <i>Sturnia sinensis</i> ( <i>Gm.</i> ).          |
| 554. <i>Eulabes javanensis</i><br>( <i>Osbeck</i> ). | [557. <i>Sturnia malabarica</i><br>( <i>Gm.</i> ).]   |
| 555. <i>Calornis chalybea</i><br>( <i>Horsf.</i> ).  | [558. <i>Sturnia nemoricola</i><br>( <i>Jerd.</i> ).] |
|  | 559. <i>Agrospas sturninus</i> ( <i>Pall.</i> ).      |

525. Low elevations in Trang and Upper Perak; mountains of South Perak, Selangor and Pahang.

528. Fairly common in Kuala Lumpur, December, 1909.

533. Coast line of the northern parts of the Peninsula only.

540. Mountains of South Perak, Selangor and Pahang; reported from the Larut range, Central Perak.

541. Trang and coast of Patani.

550. Langkawi, where specimens were obtained in March, 1909, is the most southerly known locality for this species.

557, 558. Both these species occur (*vide* Hanitsch) in Singapore. They have not been met with elsewhere in the Peninsula, and their occurrence as wild birds is very doubtful.

## STARLINGS—(cont.)

560. *Acridotheres torquatus* | 561. *Æthiospar fuscus*  
       (Davison). |       (Wagl.).  
       561A. *Ampeliceps coronatus*, *Blyth*.

## FAMILY PLOCEIDÆ—WEAVER-BIRDS.

- [562. *Sporæginthus amandava* | 567. *Munia maja* (Linn.).  
       (Linn.).] | 568. *Munia acuticauda*, *Hodys*.  
 [563. *Sporæginthus flavidiventris* (Wallace).] | 569. *Munia leucogastra*  
       (Blyth).  
 564. *Ploceus infortunatus*, | 570. *Munia punctulata* (Linn.).  
       Hartert. | 571. *Erythrura prasina*  
 565. *Munia oryzivora* (Linn.). |       (Sparrrn.).  
 566. *Munia atricapilla* (Vieill.). | 572. *Chlorura*, sp.

## FAMILY FRINGILLIDÆ—FINCHES.

573. *Passer montanus*, Linn. | 574. *Pyrrhula waterstradti*,  
       Hartert.  
       575. *Emberiza aureola*, Pall.

## FAMILY MOTACILLIDÆ—WAGTAILS.

576. *Motacilla feldeggii*, Mich. | 580. *Limonidromus indicus*  
 577. *Motacilla melanope*, Pall. |       (Gm.).  
 578. *Motacilla borealis*, | 581. *Anthus richardi*, Vieill.  
       Sundev. | 582. *Anthus malayensis*, Eyton.  
 579. *Motacilla taivanus*, | 582A. *Anthus maculatus*, *Hodgs*.  
       Swinh. | 582B. *Anthus striolatus*, *Blyth*.

## FAMILY NECTARINIDÆ—SUNBIRDS.

583. *Chalcostetha pectoralis* | 585. *Æthopyga temmincki*  
       (Temm.). |       (Horsf.).  
 584. *Æthopyga wrayi*, | 586. *Æthopyga siparaja*  
       Sharpe. |       (Horsf.).  
       587. *Æthopyga cara*, *Hume*.

560. As yet known only from the type from Central Pahang.

561A. This Golden Mynah was very common in Trang in January, 1910. It has not hitherto been known from further south than Tavoy, though recorded from Cochin-China.

562, 563. The records of these species from Singapore are probably due to escapes from captivity. Both are found in large numbers in the bird shops of the city.

571. Rare. The only authentic localities are Ulu Selama, N.-E. Perak; Larut Hills, Taiping; Klang, Selangor; Bentong, Pahang.

572. The only specimen as yet secured is a female from the Telom valley, borders of Perak and Pahang at nearly 4,000 feet.

582A. The only records for this species are that of Butler, who met with it in flocks on the edge of a large clearing on the Larut Hills at an elevation of about 3,000 feet, and two specimen obtained in the interior of Trang, December, 1909.

582B. A mounted specimen in the Perak Museum, in very bad condition, collected many years ago in the vicinity of Taiping, probably represents this species.

587. Obtained on Bukit Kutu, Selangor, 3,000 feet, by Mr. A. L. Butler in November, 1898, and on Pulau Terutau in December, 1907.

## SUNBIRDS—(cont.)

- |  |   |
|--|---|
| 588. <i>Æthopyga anomala</i> ,<br><i>Richm.</i>                | 596. <i>Chalcoparia phænicotis</i><br>( <i>Gm.</i> ).                 |
| 589. <i>Arachnethra hasselti</i><br>( <i>Temm.</i> ).          | 597. <i>Arachnothera magna</i> ,<br><i>Hodgs.</i>                     |
| 590. <i>Arachnethra pectoralis</i><br>( <i>Horsf.</i> ).       | 598. <i>Arachnothera modesta</i> ,<br><i>Eyton.</i>                   |
| 591. <i>Arachnethra flammixil-</i><br><i>laris (Blyth).</i>    | 599. <i>Arachnothera longirostris</i><br>( <i>Lath.</i> ).            |
| 592. <i>Anthothreptes hypogram-</i><br><i>mica (S. Müll.).</i> | 600. <i>Arachnothera chrysogenys</i><br>( <i>Temm.</i> ).             |
| 593. <i>Anthothreptes malaccensis</i><br>( <i>Scop.</i> ).     | 601. <i>Arachnothera flavigastra</i><br>( <i>Temm.</i> ).             |
| 594. <i>Anthothreptes rhodolæma</i> ,<br><i>Shelley.</i>       | 602. <i>Arachnothera crassirostris</i><br>( <i>Reichenb.</i> ).       |
| 595. <i>Anthothreptes simplex</i><br>( <i>S. Müll.</i> ).      | 603. <i>Arachnothera robusta</i> , <i>Müll.</i><br>and <i>Schleg.</i> |

## FAMILY DICAËDÆ—FLOWER PECKERS.

- |   |  |
|---|--|
| 604. <i>Dicæum cruentatum</i><br>( <i>Lin.</i> ).     | 608. <i>Dicæum olivaceum</i> ,<br><i>Walden.</i>         |
| 605. <i>Dicæum trigonostigma</i><br>( <i>Scop.</i> ). | 609. <i>Prionochilus ignicapillus</i> ,<br><i>Eyton.</i> |
| 606. <i>Dicæum chrysorrheum</i><br>( <i>Temm.</i> ).  | 610. <i>Prionochilus maculatus</i> ,<br><i>Temm.</i>     |
| 607. <i>Dicæum ignipectus</i> ,<br><i>Hodgs.</i>      | 611. <i>Prionochilus thoracicus</i><br>( <i>Temm.</i> ). |
612. *Piprisoma modestum*, *Hume.*

## FAMILY ZOSTEROPIDÆ—WHITE EYES.

- |   |   |
|---|---|
| 613. <i>Zosterops palpebrosa</i><br>( <i>Temm.</i> ). | 615. <i>Zosterops tahanensis</i> ,<br><i>Grant.</i> |
| 614. <i>Zosterops aureiventer</i> ,<br><i>Hume.</i>   | 616. <i>Zosterops simplex</i> ,<br><i>Swinh.</i>    |

588. Described from Trang in the north of the Peninsula; the specimen from Bukit Kutu, identified by me as this species in the first edition of this list, is really only a specimen of *Æthopyga icranyi*, which has lost the yellow feathers of the rump.

613, 616. Found only in the north of the Peninsula, and possibly only seasonal visitors.

LIST OF DESIDERATA OF BIRDS, F.M.S. MUSEUMS,  
JANUARY, 1910.

- |   |   |
|---|---|
| 1. <i>Rheinwardtia nigrescens</i> ,<br><i>Rothsch.</i>    | 5. <i>Hydrochelidon leucoptera</i> ,<br><i>Meisn. and Schinz.</i> |
| [2. <i>Carpophaga griseicapilla</i><br>( <i>Wald.</i> ).] | 6. <i>Seena seena (Sykes).</i>                                    |
| 3. <i>Limnœus paykulli</i><br>( <i>Ljung.</i> ).          | 7. <i>Sterna tibetana, Saunders.</i>                              |
| 4. <i>Porphyrio edwardsi, Elliot.</i>                     | 8. <i>Anous stolidus (Lin.).</i>                                  |
|   | 9. <i>Micranous leucocapillus</i> ,<br><i>Gould.</i>              |

## LIST OF DESIDERATA OF BIRDS, F.M.S. MUSEUMS—(cont.)

- |   |   |
|---|---|
| 10. <i>Hoplopterus ventralis</i> (Wagl.).         | [44. <i>Dendrocopus analis</i> (Horsf.).]         |
| 11. <i>Ochthodromus veredus</i> (Gould.).         | 45. <i>Micropternus phaeiceps</i> , Blyth.        |
| 12. <i>Limosa novæ-zealandiæ</i> , G. R. Gr.      | 46. <i>Hemicercus canente</i> (Less.).            |
| [13. <i>Himantopus himantopus</i> (Linn.).]       | 47. <i>Cyornis ruecki</i> , Oust.                 |
| 14. <i>Macrorhamphus taczonowskii</i> (Verr.).    | 48. <i>Cyornis dialilæma</i> (Salvad.).           |
| 15. <i>Pavoncella pugnax</i> (Linn.).             | 49. <i>Cyornis turcosa</i> , Brüggem.             |
| 16. <i>Antigone sharpii</i> (Blanf.).             | 50. <i>Cyornis elegans</i> (Temm.).               |
| 17. <i>Thaumatibis gigantea</i> (Oust.).          | 51. <i>Stoparola melanops</i> (Vig.).             |
| 18. <i>Xenorhynchus asiaticus</i> (Lath.).        | 52. <i>Pericrocotus fraterculus</i> , Swinh.      |
| [19. <i>Nyroca fuligula</i> (Linn.).]             | 53. <i>Lalage culminata</i> (Hay).                |
| 20. <i>Plotus melanogaster</i> (Gm.).             | 54. <i>Microtarsus cinereiventris</i> (Blyth).    |
| 21. <i>Phalacrocorax javanicus</i> (Horsf.).      | 55. <i>Criniger salangæ</i> , Sharpe.             |
| 22. <i>Fregata aquila</i> (Linn.).                | 56. <i>Pycnonotus robinsoni</i> , Grant.          |
| 23. <i>Phaethon indicus</i> , Hume.               | 57. <i>Timelia jerdoni</i> , Walden.              |
| 24. <i>Pelecanus roseus</i> , Gm.                 | 58. <i>Setaria melanocephala</i> (Davison).       |
| 25. <i>Neophron ginginianus</i> (Lath.).          | 59. <i>Stachyris nigriceps</i> (Hodgs.).          |
| 26. <i>Circus pygargus</i> , Linn.                | 60. <i>Thringorhina guttata</i> (Blyth).          |
| 27. <i>Circæus hypoleucus</i> (Pall.).            | 61. <i>Geocichla interpres</i> (Temm.).           |
| 28. <i>Milvus govinda</i> (Sykes).                | 62. <i>Geocichla innotata</i> (Blyth).            |
| 29. <i>Falco severus</i> , Horsf.                 | 63. <i>Oreocichla affinis</i> , Richm.            |
| 30. <i>Asio otus</i> (Linn.).                     | 64. <i>Henicurus leschenaulti</i> (Vieill.).      |
| [31. <i>Scops sunia</i> , Hodgs.]                 | 65. <i>Sutoria sutoria</i> (Forst.).              |
| 32. <i>Scops sagittata</i> , Cassin.              | 66. <i>Acanthopneuste trochiloides</i> , Sundev.  |
| 33. <i>Strix javanica</i> (Horsf.).               | 67. <i>Acanthopneuste magnirostris</i> (Blyth).   |
| 34. <i>Coracias affinis</i> , McClell.            | 68. <i>Dicrurus nigrescens</i> , Oates.           |
| 35. <i>Pelargopsis burmanica</i> , Sharpe.        | 69. <i>Sturnia sinensis</i> (Gm.).                |
| 36. <i>Haleyon armstrongi</i> , Sharpe.           | [70. <i>Sturnia malabarica</i> (Gm.).]            |
| 37. <i>Collocalia gigas</i> , Hartert.            | [71. <i>Sturnia nemoricola</i> (Jerd.).]          |
| 38. <i>Pyroptogon orrophæus</i> , Cab. and Heine. | 72. <i>Aceridotheres torquatus</i> (Davison).     |
| 39. <i>Hierococcyx nanus</i> , Hume.              | [73. <i>Sporæginthus amandava</i> (Linn.).]       |
| 40. <i>Cuculus canorus</i> , Linn.                | [74. <i>Sporæginthus flavidiventris</i> (Wall.).] |
| 41. <i>Chalcococcyx basalis</i> (Horsf.).         | 75. <i>Munia leucogastra</i> (Blyth).             |
| 42. <i>Gecinus robinsoni</i> , Grant.             | 76. <i>Chlorura</i> , sp.                         |
| 43. <i>Iyngipicus pumilus</i> , Hargitt.          | 77. <i>Motacilla feldeggii</i> , Mich.            |
|   | 78. <i>Motacilla borealis</i> , Sundev.           |
|   | 79. <i>Motacilla taiwanus</i> , Swinh.            |

SPECIES DESIDERATA OF THE F.M.S. MUSEUMS, NOT AT  
PRESENT KNOWN FROM THE FEDERATED MALAY  
STATES OR STRAITS SETTLEMENTS.

- |  |  |
|--|--|
| 1. <i>Hoplopterus ventralis</i> .                        | 13. <i>Microtarsus cinereiventris</i><br>( <i>Blyth</i> ).           |
| 2. <i>Antigone sharpii</i> ( <i>Blanf.</i> ).            | 14. <i>Criniger salangæ</i> , <i>Sharpe</i> .                        |
| 3. <i>Thaumatibis gigantea</i><br>( <i>Oust.</i> ).      | 15. <i>Pycnonotus blanfordi</i> , <i>Jerd.</i>                       |
| 4. <i>Xenorhynchus asiaticus</i><br>( <i>Lath.</i> ).    | 16. <i>Pycnonotus robinsoni</i> ,<br>( <i>Grant</i> ).               |
| 5. <i>Coracias affinis</i> , <i>McClell.</i>             | 17. <i>Timelia jerdoni</i> , <i>Wald.</i>                            |
| 6. <i>Pelagopsis burmanica</i> ,<br><i>Sharpe</i> .      | 18. <i>Stachyris nigriceps</i> , <i>Hodgs.</i>                       |
| 7. <i>Halcyon armstrongi</i> , <i>Sharpe</i> .           | 19. <i>Thringorhina guttata</i> ,<br>( <i>Blyth</i> ).               |
| 8. <i>Hierococyx nanus</i> , <i>Hume</i> .               | 20. <i>Geocichla interpres</i> ( <i>Temm.</i> ).                     |
| 9. <i>Iyngipicus pumilus</i> , <i>Hargitt</i> .          | 21. <i>Oreocichla affinis</i> , <i>Richm.</i>                        |
| 10. <i>Micropternus phæocephalus</i> ,<br><i>Blyth</i> . | 22. <i>Acanthopneuste trochiloides</i><br>( <i>Sundev.</i> ).        |
| 11. <i>Hemicercus canente</i> ( <i>Less.</i> ).          | 23. <i>Acanthopneuste magniro-</i><br><i>stris</i> ( <i>Blyth</i> ). |
| 12. <i>Stoparola melanops</i> ( <i>Vig.</i> ).           |  |

SPECIES INCLUDED IN THE PRESENT LIST, BUT NOT  
APPEARING IN THE PREVIOUS ONE.

- |  |  |
|--|--|
| 44A. <i>Limnobæus paykulli</i><br>( <i>Ljung</i> ).                    | 357A. <i>Cyornis elegans</i> ( <i>Temm.</i> ).                       |
| 65A. <i>Orthorhamphus magniro-</i><br><i>stris</i> ( <i>Geoffr.</i> ). | 435A. <i>Gampsorhynchus satura-</i><br><i>tior</i> , <i>Sharpe</i> . |
| 67A. <i>Hoplopterus ventralis</i><br>( <i>Wagl.</i> ).                 | 443A. <i>Turdinus sepiarius</i><br>( <i>Horsf.</i> ).                |
| 81A. <i>Terekia cinerea</i> ( <i>Guldenst.</i> ).                      | 460A. <i>Alcippe phayrei</i> , <i>Blyth</i> .                        |
| 96A. <i>Gallinago megalæ</i> , <i>Swinh.</i>                           | 463A. <i>Stachyris nigriceps</i><br>( <i>Hodgs.</i> ).               |
| 112A. <i>Herodias alba</i> ( <i>Linn.</i> ).                           | 469A. <i>Thringorhina guttata</i><br>( <i>Blyth</i> ).               |
| 122A. <i>Ardetta pulchra</i> , <i>Hume</i> .                           | 476A. <i>Myiophoneus temmincki</i> ,<br><i>Vig.</i>                  |
| 124A. <i>Botaurus stellaris</i> , <i>Linn.</i>                         | 493A. <i>Petrophila cyanea</i> ( <i>Linn.</i> ).                     |
| 142A. <i>Neophron ginginianus</i><br>( <i>Lath.</i> ).                 | 499A. <i>Notodola leucura</i> ( <i>Hodgs.</i> ).                     |
| 155A. <i>Spizaetus nepalensis</i><br>( <i>Hodgs.</i> ).                | 516A. <i>Acanthopneuste super-</i><br><i>cilius</i> ( <i>Gm.</i> ).  |
| 181A. <i>Ketupa zeylonensis</i> , <i>Gm.</i>                           | 561A. <i>Ampeliceps coronatus</i> ,<br><i>Blyth</i> .                |
| 350A. <i>Cyornis malayensis</i> ,<br><i>Robinson</i> .                 | 582A. <i>Anthus maculatus</i> , <i>Hodgs.</i>                        |
| 353A. <i>Cyornis dialilæma</i><br>( <i>Salvad.</i> ).                  | 582B. <i>Anthus striolatus</i> , <i>Blyth</i> .                      |

SPECIES EXCLUDED FROM THE PRESENT LIST, BEING  
SYNONYMS OF SPECIES ALREADY INCLUDED.

- |   |  |
|---|--|
| 457. <i>Turdinulus humei</i> , <i>Grant</i> . | 470. <i>Stachyris chrysops</i> , <i>Richm.</i> |
|---|--|

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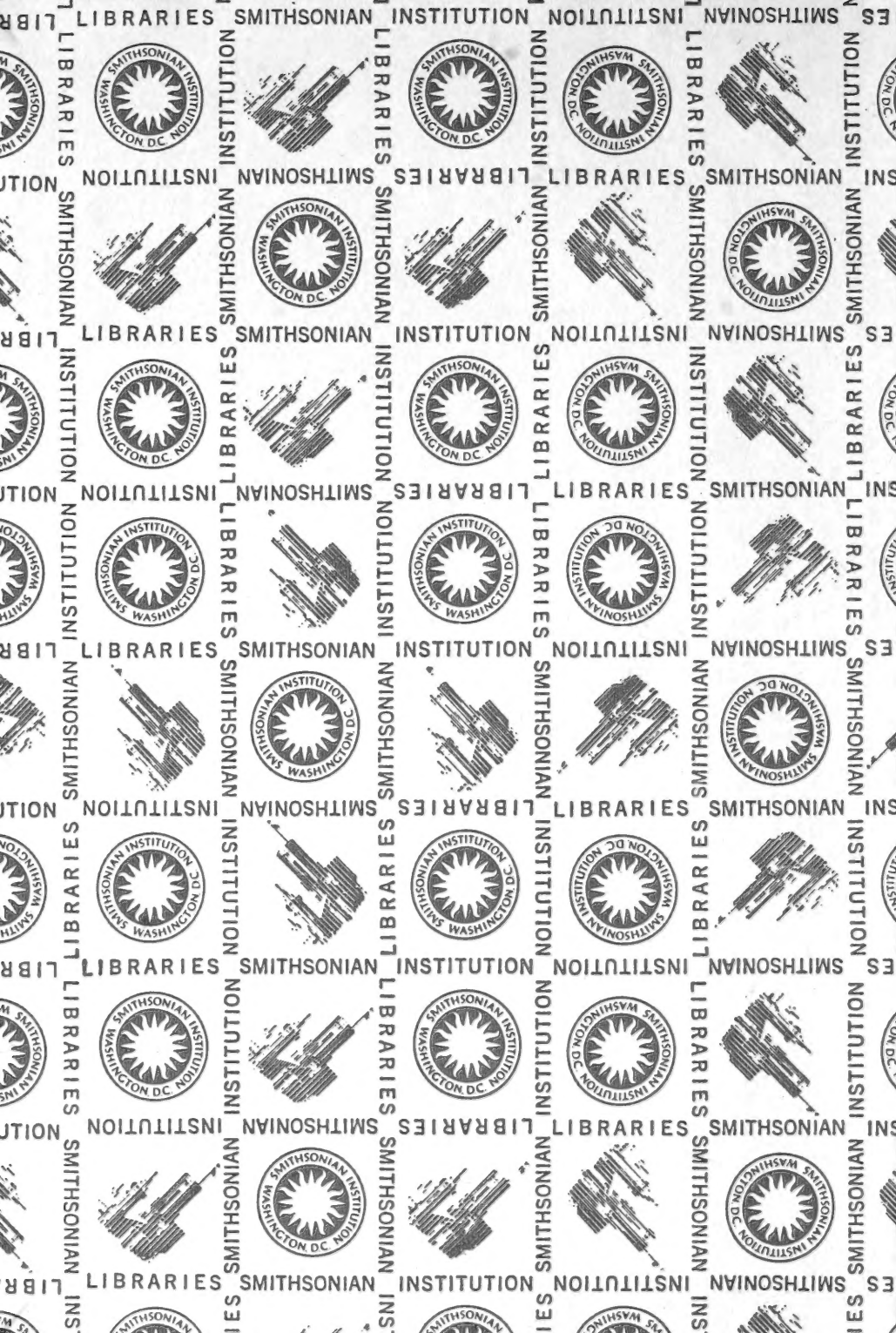
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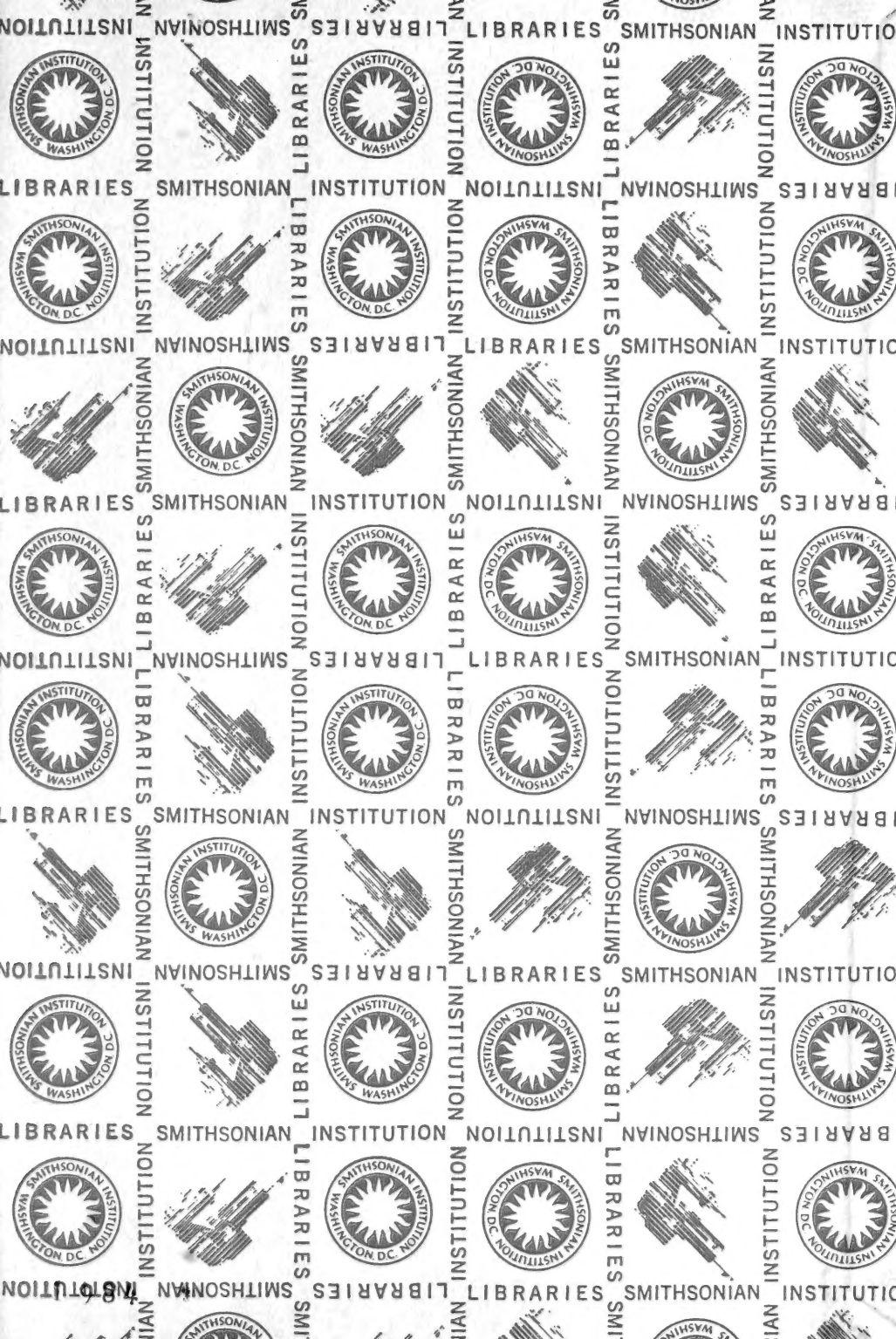












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